

#### PART I INTRODUCTORY

# Origins of the Enquiry

1. In June, 1959, the Scottish Transport Council and the Advisory Panel on the Highlands and Islands were invited by the Minister of Transport and Civil Aviation on behalf of himself and the Secretary of State for Scotland to cooperate in a study of existing transport services in the Highlands and Islands; the consequences of competition between sea and air, rail and road, and probable trends in the development of and the demands for, different means of transport; and the possible methods of securing adequate facilities in future, regard being paid to the need to avoid unnecessary duplication of unremunerative services.

### Membership

2. Membership of the Enquiry has comprised two representatives of the Scottish Transport Council and two of the Advisory Panel on the Highlands and Islands in addition to the Chairmen of both bodies who have acted as Joint Chairmen of the Enquiry. The Enquiry has been assisted by a Working Party of representatives of the operators of nationalised or Government assisted transport services in the area (British Railways, the Scottish Bus Group, British Road Services, British European Airways and David MacBrayne Ltd.) and of Departments concerned with Highland affairs and the various aspects of Scottish transport (the Department of Agriculture and Fisheries for Scotland, the Scottish Development Department, the Ministry of Aviation and the Ministry of Power). The Secretaries of the Scottish Transport Council and the Highlands Panel have acted as Joint Secretaries to the Enquiry. The views expressed in this report are of course the views of the members of the Enquiry alone. The membership of the Enquiry and of the Working Party are given in Appendix 1.

#### Scope of this Report

3. Earlier in 1961 we submitted to the Minister of Transport a report on bus services in the Highlands and Islands in order that our views on this aspect of Highland transport might be made known at the same time as the Committee on Rural Bus Services in the United Kinedom reported, and this was published in December, 1961.\* This present report on communications by rail, road, air and sea represents the major part of our work and deals with arterial transport in the Highlands and Islands. The Government's proposals for the reorganisation of the nationalised transport undertakings, especially the railways, which were the subject of a White Paper, (Cmnd. 1248, December, 1960), and have subsequently been developed in the Transport Act which has just become law; their views on the financial and economic obligations of the nationalised industries (Cmnd. 1337, April, 1961) and on civil aerodromes and air navigational services (Cmnd. 1457, August, 1961) have greatly changed the background against which the problems of Highland transport have to be considered and the submission of this \*Report of the Highland Transport Enquiry on Bus Services in the Highlands and Islands,

Ministry of Transport, 1961.

report has inevitably been delayed. We are aware too that as regards the railways, the results of the studies at present being carried out by the British Transport Commission on the traffics carried by and the economics of individual lines will shortly be available.

- 4. The devising of a Highland transport plan has been the aim of many since Scottish minds began to apply themselves to the proper development of the North and West nearly 200 years ago, but it is salutary to recall how plans have changed with the years. The late 18th and early 19th centuries believed that canals at Crinan and along the Great Glen would facilitate the answer to the transport requirements of the Highlands and Islands. The Statistical Account of Scotland of 1792 even suggested a canal joining north-east and north-west coasts via the lochs of central Sutherland and a canal joining the Great Glen to the west coast through Moidart. Sir Walter Scott in 1828 could express the hope that 'the late introduction of steam navigation, by facilitating the communications with the best markets, presents an important stimulus to the encouragement of industry, in a country almost everywhere indented by creeks and salt water lakes. suitable to the access of steam vessels'. Then came the railway era and the canals and coastal shipping to the Highlands alike both began to lose importance; and in their turn the Highland railway lines were considered to be an enduring answer to the transport problem of the area. But any expectation that the 'problem' of Highland transport could be solved once and for all was to prove illusory. As late as 1920 a Government Committee on Transport in Rural Scotland-with the advent of road transport just over the horizon—could recommend that the solution to the difficulties of Highland transport lay in the construction of a suitable number of light railways on the mainland and in some of the larger islands. On the advice then available to them it seemed to the Committee that roads and vehicular traffic could never meet the transport requirements of any part of the Highlands. We may justifiably be diffident about propounding any hard and fast solution to the problem.
- 5. The arrangement of this report is as follows: first we describe the existing arterial transport services of the area by rail, road, air and see, and we include a description of the trunk roads. Next we describe trends of traffic so far as they can be ascertained and the various measures of modernisation and improvement recently completed, in hinad or projected; this inducted information about trunk road improvement. Then we examine the financial aspects. Lastly we consider how adequate facilities might be secured in future.
- 6. In our first report we referred to the assistance given us by the review of bus services in the maintand Highlands and Hebridae compiled by Dr. W. 1, Sewsis\*. This study of bus services was part of a major review of transport operation in this area. At our request Dr. Skewis also gave us advance copies of this work; and we would like to record our high opinion of Dr. Skewis's work and of its value to us.
- 7. The invitation to the Scottish Transport Council and the Highlands Panel to undertake this present enquiry was conveyed in 1959 by the then Parliamentary Secretary to the Ministry of Transport and Giril Aviation. Since then divide a viation has become the responsibility of a separate department; and so we

<sup>\*</sup>Transport in the Highlands and Islands. W. Iain Skewis, B.Sc., Ph.D., Glasgow University, 1962.

address our report to the Minister of Aviation as well as to the Minister of Transport and the Secretary of State for Scotland.

#### PART II EXISTING TRANSPORT SERVICES

This section deals with the salient features of rail services, roads and roads services, shipping services and air services. Statistical information is given in the Appendices.

#### RAIL SERVICES

9. The Highland railway system is in two parts. The main part consists of a spine running from central Sociated by Perth over the Grampians to Inverness and northwards from there to Wick and Thurso. From this spine, lines run to Oban and Ballachulish on the west coast from Dublane, up Speyside from Aviennor to the Moray Firth coast and from Dingwall to the north west coast at Kje of Localish. At Inverness there is rail connection assistant to A beteden. The second part of the Highland system is the line from Chagow to Fort William are given in Appendix II. The total passanger carryings are not available to us, though British Railways have given us figures of passengers booked at stations on the Highland line. We refer to this in paragraph 6.

#### Perth-Inverness

- 10. General Description. The railway from Perth to Inverness is 118 miles in length and, after it leaves the Perth-Aberdeen route at Stanley Junction, for the greater part is single track. At Ballinking, 24 miles north of Perth, a branch him Perther and the present part is single track. At Ballinking, 24 miles north of Perth, a branch him Perther and the present part of the part of the present part of the present part of the present part of the present part of the pa
- 11. At Aviemore, 84 miles north of Perth, an alternative and longer route to Inverness via Forres commences: this 60 mile line is almost all single track and carries trains for the Speyside line to Craigellachie over its first five miles from Aviemore, and Aberdeen to Inverness trains on the Forres to Inverness stretch.
- 12. Corryings. The freight carryings of the Perth to Inverness line approach aff a million tours; about a third of this is coal and a little less than a third is general merchandise. 1,330,000 parcels and 1,600,000 bags of mail are carried annually. There is a considerable liversock traffic, which is of course eautely seasonal. Twice as much of this originates from the stations north of Inverness serving the sheep and cettle rearring areas of Rossi-line. Sutherland and Cattheness, as from the stations of the Pertibulivenness line. Passenger traffic in the sammer is estimated to be nearly double the average winter carryings, but those summer digues include several sharp peaks of traffic when the 5,150 season these traffic and the several sharp peaks of traffic when the 5,150 season the needs of the resultine shalled by resultances to buffect cars on the media rather than the resultance to buffect cars on the media rather small rather.

- by sleeping berths on night trains between Inverness and London, Glasgow and Edinburgh; and by a motor car sleeper service, three days a week in summer between Inverness and Newcastle, York and Sutton Coldfield.
- 13. Winter operation. The two summits of the line are subject to severe winter weather, but rail services are interrupted only rarely and then not for long.

# The Inverness-Wick/Thurso railway

- 14. General Description. This line is 161 miles long and is single track. North of Helmottals, the line runs between moutains and high lying mound. Through ruilbeads at Murie of Ord, Fearn, Bonarbridge, Lairg, Kulbrace, Nich and Tharto the line serves Caithiness, Surherland and the eastern seaboard of Ross and Cromarty. Railway lories based at these railbeads play a part in this. Services to Thurse of fin with the daily sailings of the malilishy of the North Sociand, Orkney and Shedand Shipping Company between Scrabster and Stromenss in Orkney.
- 15. Currying: The freight carryings of about 170,000 tons per annum are made up, to more than a third, of coal and, also to more than a third, of general near-thanding, including the carried annuals. The relative to the coal and the carried annuals. The relative conveyance of the assamal livestock traffic from the Northern Highlands has already been mentioned in connection with the Pertha-unverness line. The August pack of this traffic coincides with the apex of the summer passenger traffic. Passenger traffic again increases more than twefold in the summer months, with sharp per pass in these summer carryings when the 926 seats per day provided on all trains are fully taken up. Restaurant to buffer carr are provided on most through trains.
- 16. Winter operation. During the winter, severe weather—even blizzards—may be encountered around Lairg and on the inland sweep of the line between Helmsdale and Wick, but at the worst rail services are only interrupted for up to half a day.

## The Dingwall-Kyle of Lochalsh railway

- 17. General Description. From Disgoal, 19 miles distant from Inventes, this recurs to the west for 62 miles through Ross-shire to Kyle of Lochalis. It is single track, and west of Garve it runs through mountainous country, Garve, Achanabeca má Strathearon stations are railbased for the small communities on the west coast of the country at Ullapool, Gairfoelh and the shore of Loch Torridon. In addition to serving the greater part of mainland Ross-shire, this rail route connects Aberdeen and the Moray Firth with the West Coast and the Hebrides. In particular it links the county town of Dingwall with Lewis. The railhead at Kyle serves Kyes through the vehicle forty service operated across the narrows by the S. I.C. owned Caledonian Steam Packet Company. There are daily steamer services from the railway owned pier by Messrs. ManBayuri's ships or Stormowy in Lowis, Porter in Soky, Ranasy, Applecors and Mallaig, also
- 18. Carryings. Annual freight carryings of the line are small—under 4,000 tons of coal, just over 3,000 tons of timber and 10,000 tons of general merchandise. 70,000 head of livestock are carried annually but this is not so abrupt a scasonal traffic as the carryings of the lines already described since a rood deal of it is

daily livestock traffic to Stornoway for slaughtering there. Over 300,000 gallond or milk are transported annually for shipment to Stornoway, in daily consignment, which fluctuate considerably on account of seasonal and other fastors. This line also carriers 330,000 parcets and 310,000 parcets and 310,000 parcets and 310,000 parcets and 310,000 parcets are summarized to the stornoverse of t

Winter operation. In winter, central Ross-shire is liable to have heavy falls
of snow, but generally rail services are not interrupted.

## The Dunblane-Oban/Ballachulish railway

- 20. General Description. From Dunblane, the point at which this single truck rallway laxes the Glasgow (Bushanan Streef)-Stiffing-Perth main line, it runs north and west 82 miles to Oban. After its first 11 miles to Callander, the line runs through mountainous country all the way to its destination. At Killin Junction, a further twenty miles or, increased its destination. At Killin Junction, a further twenty miles or, increased in the control of the control of the state of the control of the c
- 2.1. Corryings, Of the annual freight traffic of nearly 90,000 tons, about a third consists of coal and coke, about a quarter of general menchandise, about a fifth of alumina (conveyed to Ballachulish from Bernisland in bulk alumina varian provided by the railways) for the aluminium works at Kindochkevn. There is also a considerable tomatige of oil carried. The control of the co

## The Craigendoran-Fort William-Mallaig railway

The control Description. Glasgow (Queen Steec) is the starting point and destination of passenger trains on this line but the line itself begins at Craigededran Junction where it leaves the Glasgow-Belenburgh line. From Craigendorna Junction where it leaves the Glasgow-Belenburgh line. From Craigendorna Illumina mountainous or moorland country. At Crianharich it crosses the Dunblane-Oben line and from there on the line is the only public transport link for a number of remote communities. From or the line is the only public transport link for a number of remote communities. From each motor launch service on Lock Stull between Modart and Gleinfinnan, at which there is a station on the West

- Highland line. Mallaig Harbour which was built for the railway is the connection with Messrs. MacBrayne's steamers to Skye and the Outer Hebrides.
- 23. Carryings. Freight traffic is considerable (193,000 tons) and like the other Highland railway lines, coal and general merchandise are main components of the freight carryings. But this line has also an important industrial traffic in connection with the factories of the British Aluminium Company at Fort William. Like the Oban line it carries a considerable tonnage of oil and spirit. Livestock carryings (26,000 a year) are much less than on the other Highland lines but the railway plays an important part in the conveyance of fish from Mallaig. 100,000 parcels and 100,000 bags of mail are carried each year on the West Highland Railway. Between summer and winter, passenger carryings on this line are estimated to show a greater disparity than on any other Highland line; the average summer traffic is more than three times the average winter traffic and in the summer season there are days of peak traffic when nearly 2,000 seats are provided on all trains to and from Mallaig, and all of these are taken up In summer, observation cars run between Glasgow and Fort William and between Fort William and Mallaig. On the Glasgow-Fort William section the connection with the Loch Lomond steamer service at Ardlui, and the connection with the Dunblane-Oban line at Crianlarich makes possible scenic tours on a circular route. There are sleeping cars every week day between Fort William and London.
- Winter operation. In winter, the whole area north of Crianlarich is liable to heavy falls of snow, but, generally, rail services are not interrupted.

and restaurant cars on the main trains.

25. The West Highland Railway from Banavie to Mallaig and the Highland Railway from Strome Ferry to Kyle of Lochalsh were constructed with some Government assistance, but generally the Highland railway lines are the outcome of competing endeavours of the former Caledonian, Highland and North British Railway Companies to tap and create Highland and Island traffic. including fisheries traffic; hence the fact of three separate lines to the west coast and the development of Kyle and Mallaig as well as Oban as steamer ports for the Hebrides. These railway lines provide comfortable means of passenger travel and link the Highlands to the rest of Great Britain by long distance trains and connections; they are able to cope with the high peaks of passenger travel of the summer months, and play a very important part in the Highland tourist industry. Coal makes up about a third of their freight carryings (some liquid fuel also being carried) and general merchandise (including agricultural traffic) another third. Seasonal livestock carryings on all lines are considerable. The lines to Fort William and Ballachulish have considerable industrial traffic and can continue to operate throughout the worst of the Highland winter.

### ROADS

- 26. Since our concern is with arterial communications in the Highlands, we have limited our scope to trunk roads. We are thus again confined to the mainland, for there are no trunk roads in the islands (though we shall refer again to that matter). The highway authority is the Secretary of State, operating through the Secritib Development Denartment.
- 27. The Highland trunk road system has two main strands, A9 from Perth to

Inverness and Wick; and AS2 from Balloch at the south end of Loch Lomond to Fort William and Inverness. From AS, sput trunk roseds un from Wick to Thusso and from Dingwall to Ullapool on the west coast of Rossi-shire. From AS2, trunk pages run from Invergarry in the Great Glos to Ky for Lochalah in South West Ross-shire, from Fort William to Mallaig in Western Inverness-shire, from Porturn on the South Control of the Control of the Control of the Control of the Porturn of the Control of the Control of the Control of the Control of the Porturn of the Control of the Control of the Control of the Porturn of the Control of the Control of the Association of the Control of the also lateral trunk roads in Argylshire from Lochalphead to Oban and from North Connel at the mouth of Loch Evice to Ballachulish. The trunk road from Stirling to Crianlarich provides access from south east Souland to Oban and Fort William.

28. In describing the trunk roads we say a good deal about the extent to which they are or are not considered by the Department to be 'over-loaded', 'Overloading' is calculated with reference to the point beyond which the density of traffic is greater than is desirable for free flow and general convenience, though serious congestion and the dangers that result therefrom may not begin until overloading approaches 100%. The point of overloading or theoretical capacity is calculated for each section of road, having regard to its width and alignment, in terms of passenger car units, as a convenient way of stating traffic density, In this reckoning a large bus or large lorry counts as three passenger car units or. to put it another way, it is assumed that the contribution made to traffic density by such vehicles is equivalent to that made by three motor cars. The point of overloading of a single width (10 ft .-- 11 ft. width) road of good alignment with passing places at about 150 yard intervals is reckoned to be about 800 passenger car units per day. For an 18 ft, road of good alignment the point of overloading is taken to be 4,200 p.c.u.s.; for a 24 ft. road 6,000 p.c.u.s.; for a three lane road 11,000 p.c.u.s. and for dual carriageways 25,000 p.c.u.s. The actual traffic carried is then compared with this theoretical capacity. Where no later count has been taken, an appropriate growth of traffic has been assumed since the last national traffic census of August, 1954. A census was taken on trunk roads in the third week of August, 1961, and the provisional results of this census have been shown in Appendix III which also gives a description of the Highland trunk roads in tabular form. Overloading so calculated is, of course, overloading at mid-August\*, though this is not the absolute tourist peak which is at the end of July and the beginning of August. Outwith the main holiday months, motor car traffic falls off sharply on most of the Highland trunk roads and August 'overloading' may well become October 'underloading'. In comparing the monthly variation of traffic in the Highlands and in Scotland as a whole it is noticeable that the July and August figures expressed as a percentage of the average month are appreciably greater in the Highlands.

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indicates.

Perth-Inverness (A9)
29. This road runs alongside or near the Perth-Inverness railway line from
twelve miles north of Perth to about the same distance south of Inverness. From
Perth to Blair Atholl the width is about 20 ft. and the alignment only fair, except

where in recent years certain sections have been reconstructed to a 24 ft, width

\*The figure taken is the daily average over the seven day coansus, each day covering sixtee
hours (6 am. to 10 p.m.). At some points there are wide fluctuations between weeklystee and
weekcods and even wider fluctuations between peak hours and slack hours. There may
therefore be considerably greater overloading at peak hours than the daily average figure

on a good alignment. Apart from these improved sections, this length is at canacity between Perth and south of Dunkeld and 10 % under canacity as far as Blair Atholl. From Blair Atholl to Inverness the road was improved to a good alignment over 30 years ago except at some railway bridges. The width is only 18 ft. but even so loading is 35% under capacity. The higher sections of this road (Drumochter and the Slochd) are liable to blockage in severe winter weather.

# Inverness-Wick-Thurso (49/4882)

30. This road keeps to the coast and the road distance from Inverness to Wick is a good deal shorter than the rail distance-125 miles (assuming that the direct route A836 over Struie is used instead of the trunk road via Tain) as opposed to 161 miles by rail. The width is from a narrow two-lane (about 20 ft.) on the southern sections to 18 ft. (and even 16 ft. in places) in Sutherland and Caithness. The road has not been subject to comprehensive reconstruction and its alignment is only fair, though it is reasonably good between Wick and Thurso. The worst features between Brora and Wick (notably Berriedale Hill) have been improved or will be during the next few years. Overloading from 20% to 10% occurs on the southern 30 miles of this road. North of this loading is from 60% to 70% under capacity. The coastal sections of this road in Sutherland and Caithness are very exposed and liable to blizzard in winter. The Struie Hill short cut in Easter Ross is also sometimes blocked by snow.

#### Ralloch-Tyndrum-Fort William-Inverness (482)

31. From Balloch in Dunbartonshire for 17 miles along the side of Loch Lomond to Tarbet the alignment is poor, the width is parrow two-lane to 18 ft. (and even less between Luss and Tarbet) and overloading is from 30% to 10%. From Tarbet to Crianlarich the width varies from 15 ft, to 18 ft., alignment is poor and the sides of the road weak, but loading is 40 % under canacity. The 5 miles from Crianlarich to Tyndrum which also carry traffic using the Stirling-Crianlarich road are narrow two-lane, also on a poor alignment, and loading is 10 % under capacity. From Tyndrum all the way to Inverpess (except for the 16 mile length on both sides of Loch Leven) the road was reconstructed to a good alignment before the war and though the width is only 18 ft. the traffic is from 25% to 55% below capacity. The toll ferry across the parrows at Ballachulish avoids the journey around the head of Loch Leven and saves about 12 miles but it is liable to delays in summer and is unsuitable for heavy traffic. In winter the Glencoe section of the road is liable to blockage by snow. By road the distance from Glasgow to Fort William via Ballachulish Ferry is 101 miles, as compared

#### Dinowall-Garve-Ullanool (A834), (A832) and (A835) Garve-Strome Ferry-Auchtertyre (A832) and (A890)

with the railway's 123 miles.

32. For 13 miles from Dingwall to Garve the trunk road (A834) is narrow twolane and of poor alignment but it is 55% under capacity. The length from Garve to Ullapool (A835) is 32 miles, over two-thirds of which is single carriageway. The alignment, particularly between the junction with A832 at Braemore and Ullapool is poor. The single way lengths are 50 % overloaded. From Garve the Class I road (A890) takes the same route as the railway as far as Strathcarron. from there the railway runs along the south side of Loch Carron to Kyle but the road runs along the north side of the Loch to Strome, and traffic for Kyle has to cross Loch Carron, by the vehicular toll ferry, to South Strome. From there it runs south to join the Invergarry-Kyle of Lochalsh trunk road, A87, 7 miles to the east of Kyle. This Class I road is single carriageway, has poor alignment and is up to  $50\,\%$  overloaded.

# Invergarry-Kyle of Lochalsh (A87)

33. This road is single width an of poor alignment except on the eight miles over the hill from Gleapary to Glenmoriston which was reconstructed recently to 18 ft. width on a good alignment and on the further recent construction of 3 miles as Gleanle Inn. The reconstruction of 4 further free miles uses of Clausie line is shortly to start. The single which sections are 100%, everloaded; on the 18 shortly to start. The single which sections are 100%, everloaded; on the Company which for the position of the start of the st

# Fort William-Mallaig (A830)

34. This road follows the same route as the railway line. For all but its first term tiller it is a single width road with alignment varying from good to very poor. Work is now in progress between Clentinans and Lochalors which will convert I miles (which historic hold an alignment and width as Thomas Tellurd conserved it 150 years ago) into an 18 ft. road on a good alignment. The South Development Department expect that a soon as the Glentinan-Lochalort section has been completed traffic will increase, especially tourist raffic, and that swere overloading of the single carriageway lengths are somewhat the progress of the progress of the single carriageway lengths are somewhat the progress of the progress

### Tvndrum-Oban (A85)

35. This road follows for most of its length the same route as the railway line from Tyndrum to Oban. Alignment is good and there is an 18 ft. carriageway; loading is from 35% to 55% under capacity but the last five miles into Oban are 15% overloaded.

### Stirling-Crianlarich (A84)

36. This road follows the same route as the eastern part of the Stirling-Oban railway. Alignment varies from good to poor and the width is narrow two-lane no but loading varies from near capacity to 40½ under capacity. There are a number of railway bridges east or Crianitatich which restrict the height of vehicles, such as cattle floats, using the road. A start has been made on eliminating these low bridges.

#### Tarbert-Lochgilphead (A83)

37. Almost the whole of this road has been reconstructed to an 18 ft width on a satisfactory alignment. The section between Tarbert and the junction of the Dunson Road A815 is the most heavily trafficked but loading is 15% under capacity. Loading on the rest of the road is from 50% to 60% under capacity.

Lochgilphead-Oban (A816)

 Throughout, this road is 16-18 ft. wide and alignment is poor but loading is 65% under capacity.

## Connel-Ballachulish (A828)

39. This road runs alongside the Connel-Ballachulish railway. It is 16-18 ft. in which and has poor alignment except where reconstruction has taken place on the northern half of the road. Loading is 70% under capacity. Connel Railway Bridge is owned by the British Transport Commission but road vehicles, subject to a restriction as to width and height, are permitted to use the bridge on payment of a toll.

- 40. As traffic arteries, these roads (except for the height restriction on the Stirling-Crianlarich Road the weight restriction of 14 tons on the Fort William-Mallaig Road and the restrictions at Connel Railway Bridge) are able to take the largest vehicles in current use but certain of them have serious shortcomings as follows:
- (a) The single width sections of three spur trunk roads have poor alignments and the present traffic conditions there are such that
- and the present traffic conditions there are such that

  (i) the Mallaig road (A830) is already somewhat overloaded and conditions
  - on the single width sections will worsen when the present roadworks are completed.
  - (ii) the Kyle of Lochalsh road (A87) is 100% overloaded.
- (iii) the Ullapool road (A834) is about 50% overloaded.
- (b) A9 between Inverness and Dingwall is 20% overloaded and between Dingwall and Evanton 10% overloaded.
   (c) A9 north of Brora has lengths where the carriageway is as narrow as
- 15-16 ft. and there are isolated sections with steep gradients, hairpin bends and narrow and weak bridges, e.g., Berriedale (pardy improved however), Dunbeath, Latheron-wheel.
- In addition the main access roads to the Highland area have the following defects:
  - (a) The Loch Lomond Road A82 from Balloch to Tarbet is up to 30 % overloaded and on the whole is narrow and badly aligned.
  - (b) A82 between Tarbet and Crianlarich, although not overloaded, is narrow, poorly aligned and has weak haunches.

## ROAD HAULAGE

41. Regular road haulage services, from nightly long distance trunk runs to daily rounds in some of the burghs are provided in the Highban mainland by private operators, by British Road Services in Argyllshire and two Inverses, and by David Modfleyne Ltd. in Argyllshire and liveness-shire. In addition to regular services, all these operators provide occasional services as required specially for butla and full loads within the areas of their illeances from the Traffic Commissioners, and consignments are transmitted to and from other parts of Secotland and England. Of the sitends only Skych as through road haulage services to and from the mainland since as yet it alone has a while ferry commercion. In all the other main islands road haulage services operate from the

ports of call of steamers providing mail ship or cargo connections with the main-

- 42. Official statistics do not now provide the information we require for the Highland counties but the statistical picture of road haulage in the mainland Highlands and in the Inner and Outer Hebrides presented by Dr. Skewis and reproduced in Appendix IV shows how 'A' and 'B' licences had developed by 1958 Throughout the Highlands and Islands as throughout Great Britain there are three distinct types of licence available. The 'A' licence is the carrier's licence for hire or reward only, the 'C' licence is for the holder's own goods, while the 'B' licence allows the carriage of his own goods and also of others for hire or reward within the restrictions of the licence. As Dr. Skewis says, 'A' licences 'require a considerable amount of regular available traffic to keep them employed while the "B" licences are usually only partly dependent on road haulage for a living . . . One of the advantages of the "A" licence is the relatively free range of operation attached to it. This freedom is generally of little value to hauliers in the Isles and consequently the "B" licence predominates'. Dr. Skewis also draws attention to the fact that the Hebrides have the highest numbers of haulage vehicles per thousand of population in Scotland.
- 43. There is no reliable indication of the tonnages of freight carried by road in the Highlands and without that information to set against the corresponding figures that have been supplied to us for rail by British Railways it is not possible to make a firm evaluation of the role of road transport. In 1958 the Ministry of Transport made an estimate of the national apportionment of traffic between road and rail\* and concluded that road transport had by then become the major means of the inland carriage of goods in the United Kingdom. Post-war industrial development seems to have been the principal reason for this but industrial growth has not taken place in the Highlands as it has elsewhere so it is not safe to assume that the national 60: 40 split of traffic between road and rail which the Ministry's estimate suggested in 1958 is true of the Highlands today. In an endeavour to make a partial assessment by an indirect method we examined the agricultural, fish and forestry production statistics for the area and subtracted from these figures the local tonnages of rail traffic making due allowance for local consumption. It might then be assumed that the balance of this production left the Highlands by road haulage. This rough calculation proved too unreliable a form of calculation to be of value as it could take no account of the element of distance, a ton of freight carried by one means from say Inverness to Perth being equated with a ton by the other from Inverness to London. All we can say with confidence, therefore, is that even in the inadequate state of Highland roads, road haulage finds it worthwhile to compete with rail for all traffics except heavy fuel traffic but that it does not seem able at present to take over from the railways the entirety of heavy seasonal traffic, long distance traffic and small consignment conveyance. It is not known whether road haulage, if left to itself and given the opportunity, would expand to provide adequate services for these traffics but we must stress the importance to the Highland economy of its facility of speedy through transit from consignor to consignee and elimination of handling

<sup>\*&#</sup>x27;Ministry of Transport and Civil Aviation—the Transport of Goods by Road—H.M.S.O. (1959)'. See also 'Statistics of the Transport of Goods by Road' by K. F. Glover in Series A, Volume 123 of the 'Journal of the Royal Statistical Society'.

difficulties and costs. The development of agriculture and fisheries in the Highlands since the war has been increasingly influenced by the development of road transport.

# ROAD PASSENGER TRANSPORT

- 44. In our first report we considered in some detail the difficulties being met by operators both of the longer distance and the more local bus services in the Highlands and Islands. For our present purposes we mention only the longer distance bus services of the mainland Highlands. There is of course no clear dividing line between these and the more local services on the arterial routes of the Highlands but the services which may properly be termed 'longer distance' are those operated by the companies of the Scottish Bus Group (i.e., Scottish Omnibuses Ltd., W. Alexander and Sons Ltd., and Highland Omnibuses Ltd.) in summer between Glasgow and Inverness, Edinburgh and Inverness, Inverness and Thurso, and all the year round between Glasgow and Oban and Inverness and Fort William. Into this category also come the services of Messrs. MacBrayne, operated all the year round (but only at weekends in winter) between Glasgow and Fort William, and all the year round between Fort William and Inverness and Glasgow and Campbeltown. Services which cover long distances vet are also 'local' are those of Highland Omnibuses Ltd., operated throughout the year between Inverness and Heimsdale and Inverness and Dornoch, the services of Messrs, MacBrayne operated throughout the year between Fort William and the railheads at Tyndrum and between Kyle of Lochalsh and Inverness. (The Kyle/Inverness service runs on Saturdays only during the winter and on Tuesdays and Saturdays only during the summer. It operates via Invermoriston and serves a different part of the country from Kyle railway). Appendix V gives further information about these services. It will be seen from this Appendix that bus services to varying extents provide alternative means of travel to the railways except for the Fort William-Mallaig. Stirling-Crianlarich, and Dingwall-Kyle lines. They do not everywhere provide the daily all-the-year-round transport facility which the railways offer, and although the capacity of services is 'unlimited' in the sense that duplicate vehicles can be put on as necessary, the average and peak carryings in the busy season are well below those of the railways.
- 45. Both the Scottish Bus Group and David MacBrayne carry out a great deal of private hire and contract work. This takes away some traffic which might otherwise go by public transport but revenue from these sources helps to make my for losses involved in maintaining certain of these Companies' stage services.

#### SEA SERVICES

46. In the West Highlands and Hebrides David MacRayae Ltd., whose share capital is owed half by the British Transport Commission and half by Coast Lines Ltd. and who operate under contract with the Government, provide sea services for passenger and freight as well as the but and road hattage services already mentioned. The Culcedonian Steam well as the but and road hattage services already mentioned. The Culcedonian Steam Ltd. Clyde (on which Messar, MacBrayae also have a service) and they operate the vehicle Errys services from

- Kyle of Lochalsh to Kyleakin in Skye. Coast Lines Ltd. operate regular cargo services to Stornoway from the East of Scotland. Tramp shipping, mostly by 'puffers', from the Clyde operates throughout the area.
- And a large memora described the Highland raway jies and three of the Highland runkry notice on the west costs, Mallage and Kye Highland runkry notice on the west costs, Mallage and Kye Challage of the Highland runkry notice of the Highland runkr
- 48. The volume of sea service traffic is indicated by the figures in Appendix VI. As with all other forms of public transport in the Hijhlanden, Sensitive of the Hijhlanden season water-trafficked, heavy cargo for the Innear and Outer Helbrides goes by ship from the Chyde rather than by rail to the west coast ports and onwards by ship. Moelfrayn's convey freight by cargo abjust rates less than those the islanders would have to pay if goods were conveyed by rail to west coast ports and onwards by the shorter sea journey to the islands. Newerthdens, a third of MacBrayne's freight traffic, montly in consignments of under ont on, goed by the milliship services. Some of this represent ratio. Newerthdens, as third of MacBrayne's freight traffic, and the represent ratio conveyed by the cargo western Highlands and the same is made up of perishables which are not assistance cargo history traffics. Messex, MacBrayne have follows, however, that there is generally a growing preference for the speedier transit, even at greater transport costs, which is afforded by the millables.
- 96. The Coast Lines service to Storoway, which is of weekly frequency, provides a sea connection between Storoway, Leish, Aberdeen, Fedanesy, Porch Bast Rogins as a connection between Storoway Leish, Aberdeen, Fedanesy, Oroch Bast Rogins and Carpo traffic service are understood to amount to North Bast Rogins and Learn Leish of Storoway. Palfer traffic throughout the West Highlands and Hebridge is very considerable. These vessels are primarily cool carriers from the Clyde and Ayarihe ports to the various island and west coast harbours, but they take bulk loads of other traffic notably in connection with the Talay desirable.
- 50. Orkusy and Steatand are served by the North of Scodland, Orkney and Shetland Shephol Company Lid. a subsidiary of Coast Lines Ltd. from Leith and Aberdean to Kirkwall and Lerwick and by the Company's multibin across the Party of the Company's multibin party of the Party of the Company's multibin party of the Party of the Company to Company Leith Com

51. Piers and harbours for all these services of the Highlands and Islands are provided by British Railways at the rail termini of Oban, Mallaig and Kyle; and deswhere either by Town or County Councils or local Harbour Commissions. Messrs. MacBrayne own three island and four mainland piers in the area they serve.

## AIR SERVICES

- 52. The first air service to be introduced in the Highland area began to operate in 1933, and before the war, services had developed to Campbeltown, certain of the Western Isles, Orkney and Shetland.
- 53. Since the war Highland air services have developed in a comprehensive manura and to a very considerable attent. The construction of R.A.R.; arifields during the war throughout the Highlands was—literally and figuratively—the foundation of this development. The services are all provided by British European Airways. The siteraft employed, dependent on the capabilities of the various accretiones as well as the traffic potential, are the 61 seaster Series 70 Viscount, the 44 seater Dart Henild and the 14 seater Heron (which also acts as the ambilance aircraft in the area). Services are mostly of week-day frequency, but with greater frequency on the busier routes in summer. The services run foront of the control of
- 54. The serodromes of the area are, with the exception of the beach landing ground at Barra, all operated by the Ministry of Aviation. As indicated above the capabilities of these aerodromes vary widely. Inverness, Stormoway, Benbecula, Wick, Kirkwall and Macrihanish can take Viscounts. The Ministry of Aviation have told us however that the cost of making Sumburgh and Islay.
- mitable for Viscounts would be prohibitive.

  55. Art rusts has removed obstactes of distance in the Highlands and Islands. Glasgow to Stornoway by surface travel takes 14 hours; by air it takes 2 hours. Aberdeen to Shettand—12 hours of sea crossing—6 as 80 minute flight. The whole of the area except the Western Highlands, Stye and Mult has benefited from the air service; and the greater the distance from central Socialand the greater the benefit of the season of the season
- 56. It appears that a large sector of the population of the Highlands area, especially the population of the Islands, now look on air services as the normal means of travel to and from central Scotland and to and from the South. But the air services are uneconomic because of the low revenue rate, roak traffic and

average sector distances. Poor utilisation is a function of the last of these two. During the summer season seats on an is services have to be booked in advance but only on certain holiday weeks in the year and according to the route, whereas a passage (though not a berth) on the ships which by to and from the mainland ports is always available; the railways, too, can generally arrange to carry all the passengers who wish to travel, when they wish to travel. Consideration of cost means that air services, though they have become an essential feature of passenger transport, are very far from being a falls to replace surface passenger transport.

- 57. A considerable tourist traffic is carried by the air services though there are so far no inclusive air tours in the Highlands and Islands—despite the obvious scenic attractions of the area and the ease by which the islands can be reached by air.
- Statistics of the passenger and freight carryings of the Highland and Island air routes are given in Appendix VII.

## PART III TRENDS OF TRAFFIC

### A-RAILWA YS

# Trends of Traffic

59. The information provided for us by British Railways indicates a heavy fall in goods traffic on the Highland lines. The comparison of carryings of 1960 and 1961 with those of 1949 is as follows:—

	inch	Tonnage of Freight including Livestock Forwarded and Received			Number of Parcels		
	1949	1960	1961	1949	1960	1961	
West Highland Line	205,000	174,646	188,084	116,000	92,367	96,243	
Inverness/Kyle of Lochalsh	39,653	21,887	24,644	372,103	293,525	324,782	
Inverness/Wick and Thurso	335,985	191,831	271,138	515,732	467,341	488,859	
Perth/Inverness	424,426	231,643	220,345	665,459	625,575	625,906	
Dunblane/Oban	136,660	92,875	92,067	168,429	123,700	118,126	

This overall fall in freight traffic is, of course, an example of the general decline in railway freight carryings which has taken place in the past ten years throughout the country; whereas these amounted to 22.4 thousand million ton miles in 1952 the total had dropped to 18.6 thousand million ton miles in 1960 and to 17.6 thousand million ton miles in 1960 and to 17.6 thousand million ton miles in 1960 and to 17.6 thousand million ton miles in 1960.

measure due to falling off of coal and mineral traffic and no doubt to some extent to road haulage competition.

60. The view expressed by our Working Party however is that the present trend from rail to road haulage in the Highlands may now have gone as far as it is likely to go, given existing facilities and charges (indeed the recovery indicated by the 1961 figures as compared with the 1960 figures may be significant); and that road baulage has already taken as much of railway freight traffic in the Highlands as it could handle at less transport cost of the consigner. This must be qualified however if the railways become more selective in their choice of traffic and if their charging policy favours bulk loads, which are lacking in the Highlands, and discriminates against small and seasonal consignments, which at the present time make up a substantial part of Highland goods traffic. The effect of such a tendency would be to increase the amount of goods going by road. Improvement of road access to Mallaig and Kyle may also result in an immediate intensification of road haulage competition with the railway lines to these ports. The introduction of vehicle ferry ship services to the Hebrides (on which we say more later) may also have an adverse effect on railway carryings. There is, howeyer, a prospect of new freight traffic for the railways in the conveyance of timber and other raw material to and the products from the proposed pulp and paper mill near Fort William, and we understand that the railway would be of vital importance to this project. It is also the expectation (though this is less immediate) that further industrial development will in time take place in the Inverness area and along the coastal strip northwards, as overspill from the congested industrial areas of the south. Industrial developments of this kind might be expected to generate, and indeed to rely on, long distance rail traffic.

61. The trend of passenger carryings in the Highlands is more difficult to establish since information about the total number of passengers travelling annually over each section of the Highland system is not available. The figures with are available of passengers boxings made at staintson on the Highland lines may reflect well enough the trend of local demand but they do not include, for example, Glasgow or Edinburgh bookings for the Oban line or for the whole Perth-Invennes-Kyle-Wick-Thurso system; and it may well be that bookings from Glasgow and Edinburgh may well from the greater part of passenger traffic on these lines. Furthermore, railway passenger traffic originating within the Highland area is the kind of traffic buich might be expected to go over to private motoring to a rather greater extent than traffic originating outside the area. The figures of passenger bookings made within the Highland area, contrasting 1949.

	Passengers Booked		
	1949	1960	
West Highland Line	112,000	94,139	
Inverness/Kyle of Lochalsh	65,337	56,950	
Inverness/Wick and Thurso	137,259	104,629	
Perth/Inverness	247,478	264,996	
Dunblane/Oban	135,107	106,547	

62. The decline in passenger bookings is not nearly so marked as the decline in goods traffic over these years and there has actually been an increase in bookings on the Perth-Inverness line. Indeed, as the figures are incomplete, it may well be that over these years passenger carryings on the Highand lines have fallen little if at all, and this may reflect their function in providing reliable and comfortable passenger links with the rest of the country. They are of course much more heavily used in summer and, as indicated in Part II, operate to capacity at peak periods.

63. Diesel traction has now been introduced on all the Highland lines and the whole system has benefited from the general improvements which modernization has brought, notably in passenger confort, in speeding up of services, in improved a transgements for freight transport by road to and from railbaseds, in rolling stock man with the conformal properties of the conformal properties. The conformal properties will be a support to the conformal point of the conformal point of

64. Clearly, however, the most important element in assessing present trends on the railways, and in predicting the future, is the studies, covering the whole of Great Britain, into railways traffics, their profitability, and their prospects for the future that the B.T.C. have put in hand. Their results are not yet available, but they should above all provide a more reliable statistical basis than has been accessible hitheria.

## B-ROAD TRAFFIC

65. A preliminary analysis by the Scottish Development Department of the traffic census taken on trunk roads in August, 1961 shows the following percentage increases—calculated as passenger car units (p.c.u's.)—compared with 1954 on the trunk roads described in paragraphs 29—39:—

	Percentage Increase 1954 to 1961			
	Maximum	Minimum	Average	
Perth-Inverness (A9)	72	26	50	
Inverness-Dingwall (A9)	47	34	41	
Dingwall-Thurso (A9 and A882)	135	33	62	
Balloch-Crianlarich (A82)	64	43	53	
Criantarich-Fort William-Inverness (A82)	109	21	79	
Dingwall-Garve-Ullapool (A834/A832/A835)	101	15	14	
Invergarry-Kyle of Lochalth (A87)	212	100	144	
Fort William-Mallaig (A830)	97	45	86	
Stirling-Crianlarich (A84)	75	55	63	
Tyndrum-Oban-Ballachulish (A85 and A828)	115	70	83	
Tarbet-Lochgilphead-Oban (A83 and A816)	103	31	64	

The overall increases of 50, 60 and 70% in the seven years 1954-61 represent annual increases of about 6, 7 and 8% compound respectively. The average

increase for Scotland is 67%. There has been a larger increase in traffic on some of the more remote Highland trunk roads than elsewhere in Scotland. The private car doubtless accounts for the main increase in traffic in the Highlands: heavy goods vehicles certainly have not, with few exceptions, increased as much as the Scottish average (40 %)

66. These figures, altogether, indicate the rapid growth of road traffic. Such a pronounced trend is unlikely to alter suddenly. For the foreseeable future therefore plans should be made on the assumption that the present trend will continue.

#### Road Haulage

67. There is no doubt that there has been an increase in road haulage in the Highlands though it may not have been so great as in other parts of the country. The Ministry of Transport's annual published census of road motor vehicles shows an increase in goods vehicles licensed in the whole Highland area from 7,263 in 1955 to 8,072 in 1960; the figures for each Highland county are given in Appendix VIII. But of course this 10% increase does not represent the whole story, for road haulage to and from the Highlands is also undertaken by vehicles recorded elsewhere. The national growth of road freight traffic was estimated by the Ministry of Transport to have been from 18.8 thousand million ton miles in 1952 to 23.1 thousand million ton miles in 1958\*; and this is estimated to represent an increase from 46% to 56% in the road transport share of freight carryings in the country. The average increase in heavy commercial traffic (vehicle miles) using all the trunk roads in Scotland between 1954 and 1961 is estimated to be 40 % but the Scottish Development Department inform us that the trunk roads in the Highlands with only a few exceptions, show a lower rate of increase than this average,

68. In the Highlands as elsewhere there has been a steady improvement in the canacity and performance of vehicles and this must be taken into account in evaluating the effect of the increase in goods vehicles. Vehicles with a carrying canacity of fifteen tons are now in common use between Lowlands and Highlands as are three-tier livestock floats.

## Road Passenger Transport

69. The longer distance stage services to the Highlands, with which we are concerned here are provided principally by the Scottish Rus Group and by David MacBrayne Ltd. Appendix V gives information provided by these operators of their carryings over the last ten years. From these it will be seen that the trend has been generally for the carryings of these services to fall.

70. There is no doubt in our minds that the over-riding reason for this is the increased use of private cars. As we said in our first report:

'Almost everyone who is able to do so provides his own form of transport. There were in 1959 nine persons per car or motor cycle throughout the Highland area, but if allowance is made for the generally lower number of vehicles per head of population in the burghs, the considerable number of goods vehicles (whether of farmers or of others) which also act as private passenger transport, and the extent to which "private passenger transport" is increasing yearly, then the extent of the present "competition" to established bus services can be appreciated'.

\*Statistics of road transport-Ministry of Transport & Civil Aviation, 1959.

- Appendix VIII gives the motor car census figures (from the Ministry of Transport's published annual census of road motor vehicles) for 1960 as contrasted with the figures for 1955. These figures indicate that during this period there was a 57% increase in motor car ownership in the area.
- 71. There has also been a striking increase in but tout traffic. The figure published by the Scottish Tourist Board in their propt for 1951 show for example that the number of passengers carried on extended bus tours in Scotland has increased from 24/34 fil 1956 to 90/50. It may be significant that the majority of the passengers were from England and Wales (70,034 in 1961). Routes vary and it is not possible to asy with precision how many passengers travel to the Highlands but the Board estimate that of these 70,034 passengers at least 50,000 were carried north of Perth.
- 7.2. Buses continue to improve in general standards of comfort. Buses of up to 36 ft. in length and 8 ft. 2 inches in width can now operate throughout Great Britain. Teasing of restrictions on the speed of buses travelling in open country from thirty to forty miles per hour should also assist the competitiveness of long distance road passenger transport in the Highlands, as desewbere.
- Roads 73. We have been informed by the Scottish Development Department that during the next ten years the bulk of Government funds for the major improvement of trunk roads in Scotland will be applied to comprehensive reconstruction of overloaded roads (some more than 100% overloaded) in and near the central industrial belt. A programme of work will include a start on the improvement of the Loch Lomondside sections of A82 (which as we have already shown are part of the main road access to the West Highlands from Glasgow and are overloaded in summer). But the Department is unable to say what large trunk road schemes will be carried out in the Highlands during this period. They have, however, informed us that it is unlikely on present expectations that the reconstruction of the single carriageway spur trunk roads to Mallaig, Kyle and Ullapool to an 18 ft. carriageway width will be completed before the mid 1970's. Other schemes which might be undertaken (though no date is given for their starting) are the replacement of Conon Bridge (on the Inverness-Dingwall Trunk Road A9) and the reconstruction of a bridge over the narrows of Loch Leven at Ballachulish to replace the present vehicular toll ferry which would shorten the distance by road between Glasgow and Inverness via Fort William by 12 miles. Further the Crofter Counties programme which includes the reconstruction of two lengths of trunk road, namely the Connel-Ballachulish Road A828 and the Lochgilphead-Oban Road A816 has been considerably accelerated and is now running at £2m. a year. The programme should be completed during the 1970's.
- 74. The Department, however, state that it should be possible to carry out many smaller schemes to improve parts of the trunk roads in the Highlands and they draw attention to the intended construction by 196 of the Class 1 road to by-pass Strome Ferry (and thus provide a through road between Kyfe and Dangwill) and the gaseed proposals to complete two mest lengths of Clas 1 road and Chinochmodiant with townslored the complete two mest lengths of Class 1 road and Kinochmodiant with townslored in Western Inverness-shire which will make sood two hitherto missine links in the "West Coast Hielmay" which had not been a conditioned to the condition of the conditions of the west coast Hielmay which had not been a conditioned to the condition of the con

been felt to be one of the main needs of a more vigorous Highland tourist industry. The construction of these new roads will, however, further build up summer traffic on the Mallaig-Kyle trunk-roads and will throw their shortcomings into still harsher relief. We will return late to the consideration of the effect on the future development of West Highland transport of this prolonged delay which is proposed to the improvement of the single width trunk roads.

# C-SEA SERVICES

## Trends in Traffic

- 78. The stends of ten a service carrying of Mears. MacReyards ships are given la Appendix VI. The trends of passenger traffic since 1928 shows a decrease on the Company's Clyde services (this appears to be largely due to development of ear ferries on the Clyde by Caledonian Resum Packet Company), and a decrease on the Portree (fale of Skye) mail service (and this is obviously due to the sealing down of this service and its patrial replacement by read services using the Kyherest of the Company's services with the single exception of their Outer fales maling service (which operates to Harris and the Utsar from Kyle and Mallaigh show increases, in some cases substantial increases. These it appears are due largely to the build up of tomist traffic. Appendix VII also gives the yearly increasing carryings of the Kyle-Kyleskin visible terry service. We quote the facility which was defected by this, the first island vehicle ferry service in the area.
- 76. Freight and livestock carryings by Messrs, MacBrayne's services have increased. There has been significant increase in demand for motor car access to and from the Inner and Outre Hebrides which MacBrayne's 'conventional' multiships have not altogether been able to meet although cutra runs have been put on in the summer season to Mull and to falsy to cope with the motor car reaffe.
- 77. This development of motor car traffic to Skye and even on conventional malibility has encouraged Messix. MacBrayne to selk Government approval to the replacement of a number of their malibility by general purpose ships equipped with vehicle lifts and holds which will take motor cars, bases, road haulage vehicles and livestock as well as passengers. The Company's proposals are for the introduction of three which ferry services:
  - e introduction of three vehicle ferry service (1) between Oban, Mull and Morvern:
  - (2) between Mallaig and Armadale (with possibly an extension to South Uist);
    (3) between Uig (North of Skye), Lochmaddy (North Uist) and Tarbert
  - (Harris).

This kind of ship has proved its value on the Chyde services of the Caledonian Steam Packet Company Ltd. In the Hebrides a servicely similar ships instanced, first, to promote the growth of the tourist trade in areas which have to far benefited little from the great advances made by that industry in the Highlands. The Obas and Mull and Morvern ferry will help to feed the Malliag, Armadale, South Usit ferry since tourist traffic may be expected to move from one ferry to another through Morvern and Moidart along the length of the new road which it is prospected to construct between Kindechmoidart and Intervaline (marseranh

74) to link these areas with the Fort William-Mallaig trunk road. The Mallaig-Armadale-South Uist service will in turn feed the Uig-Lochmaddy-Tarbert service.

78. The Company envisage that these services will develop a through bus traffic and through lorry traffic to the Hebrides as well as the motor car tourist traffic. They also consider that they will provide a more efficient, quicker and cheaper service for freight since intermediate loading should be eliminated. This may in turn affect the Company's cargo services from the Clyde, and we return to this point later in this Report.

79 Sea services to Shetland and Orkney have been modernised since the war by the construction of new tonnage for passenger and cargo services. The two new mailships, each of over 2,000 tons, built by the Company have not only done a great deal to improve the Shetland tourist industry by their greater accommodation and the 'round cruise' facilities they offer but they have also provided improved services for the conveyance of cargo traffic, especially with their refrigerated stores for the catch of the Shetland fishing fleet. The Company have also built in the post-war years two cargo ships which are mainly engaged in Orkney traffic, especially the Orkney livestock trade; and a vehicle carrying ship for the Pentland Firth crossing which has built up a new motor car traffic between Orkney and the mainland of Scotland.

#### D-AIR SERVICES AND AERODROMES

Trends of Traffic and Modernisation of Air Services

80. The upward trend in air traffic is given by a comparison of 1952 and 1960 traffic through the Ministry of Aviation aerodromes of the Highland area (i.e., all the aerodromes with the exception of Barra).

	Passengers		Freight		Mail	
	1952	1960	1952 tons	1960 tons	1952 tons	1960 tons
Campbeltown (Machribanish)	7,162	17,817	30	33	22	5
Inverness (Dalcross)	9,456	35,123	18	133	84	126
Wick	10,659	36,277	8	52	53	78
Islay (Port Ellen)	5,194	12,385	34	83	31	43
Tirce	3,768	5,176	9	9	53	3
Benbecula	9,810	18,919	20	115	84	33
Stornoway	10,142	22,583	71	246	56	44
Kirkwall	21,707	33,139	111	228	104	71
Shetland (Sumbureh)	7.719	15.672	56	150	85	69

British European Airways on their individual Highland services are given in Appendix VII.

- 81. The last ten years have seen a steady development in air services in the Highlands and lained both to meet and to foster demand. There has been a rise in carryings on all services except on the Glasgow-Tire-Barra run and the comparatively modest increase on that service was only to be expected in view of the comparatively small population of the two islands served. The general increase in air freighting is also notable.
- 82. The general figures of carryings for 1961 and for the next few years may well sown a continuing steep increase since larger aircraft have now replaced the 32 seater Plonair which throughout the fifties was the main aircraft employed on Highland and Island services. In 1962 the Plonair was replaced by the 61 seater Viscount 701 on the Glasgow-Benbecula-Stornoway-Inveness service. In 1962 the Viscount began to operate to Kriwall and services to Shetland and to Campboltown and Islay were operated by the new 44 seater Handley Page Dart Herald. (The Clasgow-Time-Barra service continues to be operated by the 14 seater than 1962 to 1962 the 1962

#### PART IV FINANCIAL ASPECTS

83. It is generally known that public transport in the Highlands, or at least large sections of it, is uneconomic and we have attempted to set out what financial losses are in fact incurred.

# Rail Transport

- 84. The loss involved in maintaining and operating the Highland railway system, and each of the component lines, has not yet been established though it should be known when the studies at present being undertaken by the British should be known when the studies at present being undertaken by the British ransport Commission have been completed. British Railways tell us, however, that they are certain that those lines do incur a considerable loss. It would be surprising if it were otherwise, because the railway system as a whole is running at a heavy loss. The White Paper of 1960 on the Recognisistion of the National and the Paper of 1960 on the Recognisistion of the National Control of the Paper of 1960 on the State of the Railway system falls short of its manning costs by £60m. a year op to find British from the £75m, of interest and central charges that should be men. A later figure of 1961 puts the total at £151m. It seems reasonable to assume that the black of this loss £11s where the bulk of the railway undertaking lies: and we do not find the state of the state of the total can be more than a very small precentage of the fettal could read the Highland lines can be more than a very small precentage of the fettal could read the Highland lines on the great that the mileage of the Highland lines on only represents about 3% of the mileage of the British railway the Highland lines on the present and the state of the state of the print and the Highland lines on only represents about 3% of the mileage of the British railway the state of the
- the riginant mass only represents about 3% of the limitage of the British railway system).

  85. It appears to have been recognised that the Highland railway lines, and indeed the whole of the present Scottish railway system have not been profitable since the end of the First World War. We understand that in 1923, when railways

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order that revenue from the traffic in the south might maintain the Scottish [repipheral' lines. At a later date, the Scottish, Region of British Railways established in 1948 was an administrative, not an economic, unit. Going further back into history, we draw attention again to the financial assistance from the Government given in the 1890's to the completion of the Kyle railway line and in the early 1900's to the building of the Fort William-Mallag in. This assistance appears to have been given as part of overall government policy at that date for Halland rehabilitation.

86. The value of the peripheral services such as the Highland lines cannot of course be assessed properly by taking them on their own, apart from the main network. An operating loss on the fringes, taken by themselves, may be offset to some extent by the value of traffic which they bring to the rest of the undertaking, and the resulting net loss, in financial terms, may be acceptable to the undertaking as a whole as the cost of providing a comprehensive network of services. The same is true of air services, for example, and in the commercial world many businesses carry on 'unprofitable' branches on this basis. We do not know to what extent, if any, the Highland lines, though unprofitable in themselves, contribute on balance to the health of the truth railway system.

## Road Passenger Transport

Sear. So working services to the tighlands and listed are supported that the Company listed are supported that the Company listed are supported that Company listed are subsidy that the Company by the Soutish Bas Group who also forego their interest on capital inverted in this undertaking. Within this speared situation it appears that the longer distance services (which are our concern here) are still in the main profilable though longer traffic; but it should be noted that some of them do not operate or operate to a very limited extent during the winter months when carryings are lighter.

### Sea Services

88. Messrs, MacBrayne receive an annual grant from the Government for their whole undertaking, which includes transport services by sea and road. This grant, distinct from payment for the carriage of mails, amounted to £260,000 in 1961. But while it covers all the Company's activities it is understood that the Company's road haulage services work on commercial terms in competition with other hauliers; and that losses on other road services are estimated to amount to about £38,000. The bulk of the grant is thus for sea services. Government assistance to the Company will have to be considerably increased to cover the annual charges on the new vehicle ferry ships which are to be built by the Government and chartered to the Company at commercial rates but the Company expect that the development of new traffic and the rationalisation of services which the new tonnage may make possible will in time reduce the need for grant. The annual grant to MacBrayne's is paid by the Government on social grounds, because without this help necessary transport services could not be maintained throughout this area at rates which the traffic could bear and if it were not paid, charges for both passenger and freight would have to be increased by about 30 %.

 Under the agreement approved by Parliament in 1961 the Orkney Islands Shipping Company-the new Company set up on local initiative but with Government assistance to provide services from Kirkwall to the North Isles of Orkney—is likely to be subsidised by about £23,000 a year. A small subsidy of £2,200 a year is provided for the steamer service to the North Isles of Shetland operated by the North of Scotland Company.

## Air Services

90. During the past ten years British European Airways have incurred an annual operating loss on their Highland and Island services. The Annual Report of British European Airways for 1960/61 reports that the 'social services in the Scottish Highlands and Islands lost some £280,000'. This loss has been borne out of overall profits on the United Kingdom and European services. Although this loss has remained fairly constant over the last ten years, it has fallen in relation to total Highland expenditure from 60% (1951) to 32% (1960) and the reduction has in the main been achieved because air traffic carried on Highland and Island services now shows a 150% increase over 1950/51 and also because of greater efficiency in operations. The figures of loss do not take into account the 'contributory' value to the rest of British European Airways' services of the Highland air services, for to some extent the services between the Highland area and Glasgow and Edinburgh act as feeders to the rest of the Corporation's network of services, and we have explained above that this is a factor that should be borne in mind. Cross-subsidisation is, however, the financial basis on which the Corporation are able to provide the Highland and Island air services, but they say that they expect it to become increasingly difficult for them to make the necessary profits throughout the rest of their services to enable them to carry these unremunerative services

91. The aerodromes for these Highland and Island services are also unremunerative and the Ministry of Aviation's trading account for 1960/61 shows a deficit of £514.159 for the small aerodromes at Benbecula, Islay, Kirkwall, Machrihanish, Stornoway, Sumburgh, Tiree and Wick. From this list Aberdeen, Inverness and Renfrew are excluded but it is understood that they also operate at a loss. The White Paper of 1961 'Civil Aerodromes and Air Navigational Services'\* referring to the serodromes of the Highland area said:

'They are never likely to pay their way, but they are at present essential to the economy and social welfare of the areas they serve. The Government recognise the importance of these aerodromes, and that there is no scope for transferring their ownership to the local communities. They do, however, form a homogeneous unit for management, and the Government are therefore exploring the possibility of arranging for the management to be carried out by an agent on their behalf. Arrangements will be made for the cost to the Exchanger of subsidising these aerodromes to be separately identified

#### General

in the national accounts'

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92. Not all of the Highland transport services are at present in need of assistance. The sea services to Orkney and Shetland provided by the North of Scotland Company, the cargo service to Stornoway provided by Coast Lines Ltd. and puffer and tramp sea services all operate at present without subsidy.

\*Cmnd 1457

- 93. Road haulage also ocerates generally without Covernment assistance. It has now however been obliged to develop in the Highlands beyond limits of prodiability. Where other forms of transport can convey freight at chepser core to the control of the control
- 94. Apart from these however it seems broadly true that mil and air services are entirely unremanerative, as are most see services to the Western Isles, and the sea services to the Northern Isles of Orticary and Stelland. Our earlier respers aboved that most stage positions of the Coast Lines of the Coast Lines service to Stormany and the service of the North of Scolland Company to Ortney and Stelland the regular all-the-year-round scheduled services are losers, and the services of the North of Scolland Company to Ortney and Stelland the regular all-the-year-round scheduled services are losers, and the services that are able to exist without assistance are those that are able to select their traffics and operate only in response to economic demand.

## PART V THE FUTURE OF HIGHLAND TRANSPORT

 The final part of our remit requires us to consider possible methods of securing adequate transport facilities in the Highlands in the future.

## Rail Transport

- 96. The Highland railways are still to a great extent the main permanent transport link with the rest of the country. They provide essential long-distance passenger transport and offer some facilities that bus services have not yet challenged, such as through travel, better terminal facilities, sleeping and dining cars, and more recently car-sleeper services. They help to sustain the tourist industry, particularly by their ability to handle peak load traffic in summer. In the snows and severe weather of the Highland winter they are able to maintain a service on many occasions when road transport is stopped or gravely handicapped. It may indeed be significant that in recent years bus stage services show decreases in carryings while the railways appear to be holding their own. On the goods side the railways are the chief long-distance carriers of coal, liquid fuel and mails and they carry considerable quantities of the general merchandise that goes into the Highland area and of the production, notably the agricultural and fish production, that comes out of it. The West Highland and Ballachulish lines serve the principal heavy industry at present located in the Highland area-the aluminium works at Fort William and Kinlochleven-and industrial development in the Inverness area and elsewhere still depends on rail transport.
- 97. The position of the railways, however, has been challenged by road transport and to a lesser extent by air transport. The challenge of road transport, especially from privately-owned vehicles and from road haulage with its facility

- for door-to-door carriage, has been particularly strong, without doubt it seems to have gained most of the new passenger traffic and is largely responsible for the steep decline in railway freight carryings, Modernisation, faster services, better facilities, more direct connections with the industrial parts of the country, will all improve the railways competitive position; but other forms of transport are being modernised too and the railways would have to go very far before they began to improve their relative position.
- 98. Whether the railways can in fact do more than keep up with other forms of transport and go on to regain traffic from road and air, as they must do if they are not to remain unremunerative, is not for us to forecast; it is primarily anterior for the counsercial judgment of the railways themselves once they have the critical dilemment that faces them is that they provide services that are essential in present circumstances but are quite unremunerative.
- 99. The challenge from road and air could be evaded by taking steps to control courtail road and air transport, and to direct traffic to rull. There is no doubt that rail would find it easy physically to handle all the traffic that moves in the maintand Highlands, at least in the vioinity of the railway network, and there must be a natural reductance to see the capital already locked up in rail undersuded road and one of the reduction of the
- 100. Nor do we think it possible to go to the opposite externs and argue that that had the day and that the Highland rallways ought to be abandoned. There might be a case for taking this line if it were two provides an adequate inhabitant for services that are still provided by rail. At present this is not so. We have indicated in paragraph 9 for the important and essential services still provided by the railways and if these services were to be cut off without adequate substitute being provided for them, then the Highland concomy would be gravely crippied and all hope of Highland evelopment would practically disappear. In particular, if any economic stability is to be provided in the Highlands, particularly if the tourist industry in any such is to be expanded, as is the current hope and expectation, and if industry on any such is to be attracted to or set up in Highland counties, it appears to us that it would be dangerous in the extreme to abundon the essential appears to us that it would be dangerous in the extreme to abundon the essential the country in the owner that the would be dangerous in the extreme to abundon the essential the position of the country as well-seen the Highlands and the industrial transport system of the country as well-seen the Highlands and the industrial transport system of the country as well-seen the Highlands and the industrial transport system of
- 10). The fact that the Highman railways are operating as a desict cannot however be ignored and provided a belong that described in montra service where the contract and provided a belong that the railways are the members—it is proper to take all reasonable steps to reduce their losses. In the past economies have mainly taken the form of reducing services or doing little—sale stations, but we are divised that or much more remains to be done in that direction. Something may be achieved by the railways concentrating others, and the fact that under the Transport Act the railways will coase to be

common carriers may be of significance in this context; but here again the Highlands would suffer if essential traffics were left without any means of transport, because they were uneconomic for the railways to handle. The real alternatives, for the meantime at any rate, seem to be either the closure of whole railway lines, or acceptance of the fact that they are to be kept running at a loss. If, however, as a matter of policy a decision should be taken to close permanently any one of the Highland railway lines, then we would most strongly recommend that such a step should not be permitted to take place until the corresponding roads in the area affected have been sufficiently improved to enable bus and freight services to operate in safety and with regularity. We would also expect that the substitute passenger service would allow for through bookings and the normal conveniences of civilised travel, that the bus should start from the railway station, and not at a point some distance therefrom, that there should be provision of proper shelter for passengers and their baggage, waiting and booking accommodation along the route, and a satisfactory co-ordination of timetables. These in our opinion are the minimum requirements which should be insisted upon before any passenger closure is sanctioned. Much the same applies to freight services and steps must also be taken to ensure that road haulage facilities are in fact available to convey adequately all essential road traffics and not only the more attractive traffics.

### Road Transport

102. Road transport particularly by privately-owned vehicles is developing in the Highlands as elsewhere in the country and has to a quite substantial extent replaced rail transport. The fact that the Highland railway network is comparatively thin, as compared with elsewhere in the country, perhaps gives road an advantage, although fully developed feeder road services to railheads can offset this. By and large also, there are few bulk consignments in the Highlands and in the absence of heavy industry or really large centres of population, goods loads are smaller and train loads or even full wagon loads such as the railways prefer to carry are less common than elsewhere. This may suggest that road haulage, dealing in smaller loads, is better adapted to Highland conditions. In the event while the railways certainly maintain their position as the chief carriers of solid and liquid fuel and of alumina and aluminium, road haulage is now a major means of freight movement. It seems probable that the introduction of vehicle ferries making possible direct road haulage to the Islands will increase this trend and that the railways' role as carriers to and from the railheads at Oban, Mallaig and Kyle of Lochalsh will be still further diminished.

103. But though haulage vehicles and long-distance buses are steadily improving in facilities and performance, the future development of road haulage and of road passenger services and the cettent to which they can replace rail depends on further improvement of the main road system. This system is inatequate for particularly as regards the remaining single width roads that run from the main system to Malling Kyel of Lochalth and Ullapool and as regards the main approach to the Highlands from the West of Sootland, the Glasgow-Fort William-Inverse road, AS2, where it runs sing Loch Lomondside. The desirability of improvement is recognised but we record with concern that no early and Kyel will not be completely reconstructed until before the mid 1970's. The

approach to Fort William on AS2 would also be greatly improved by the construction of a bridge at Ballachulist, this too is recognised as desirable but here likewise no date for construction has yet been set. It cannot be too frequently stated that if the Highland road system is to catch up with the development of road transport, and still more if road transport has to expand to fill the vacuum let by any contraction of rail transport, then substantial capital expenditure is needed on these main roads and at a much higher rate of progress and investment than is contemplated at the moment.

104. We would also draw attention to the fact that at present trunk roads suport at the mainfand shore. If it is accepted that road transport is to develop and particularly if road and ferry are to become the normal means of access to the Outer Herbricks, then it would also paper logical and appropriate that certain of the major islands should be included in the trunk road system. We can see no acceptable answer to the proposition that the main roads in these islands should be treated as trunk roads when they serve the same purpose as, say, the road from Carve to Ullapool in Ross-shire.

### Sea Services

105. See communications are, of course, the major means of freight conveyance to the Outer and Inner Hebrides (Sky excepted) and to Orkney and Sheatland and despite the growth of air travel they are also the principal means of passenger communication with the failand. They seem likely to remain so. There has been an upward trend in recent years, both as regards freight and passenger conveyance, on ModErpavies services to the fines and Outer Hebrides. The increase in passenger traffic (which has taken place despite the increase in a passenger traffic (which has taken place despite the increase in a passenger traffic and particularly the heavy carryings in the summer on the sea services to Orkney and Sheland reflects mainly the development of tourist traffic and should, we think, continue.

106. The immediate development that is likely to take place is the introduction of vehicle ferry services to the Western Isles and the effect of this change could be widespread. It should give an immediate encouragement to all forms of tourist traffic by road, though whether it will take away from the summer tourist traffic that is at present handled by the railways or will simply cater for new additional traffic remains to be seen. But the possibility of sending goods by road to the islands may well mean competition with the present goods services by rail to Oban, Mallaig and Kyle of Lochalsh. It may do more than that, The cheapest means of sending goods to these islands at present is by cargo boat, either from the Clyde or from the cast coast. Direct services by road, even if they are more expensive, may by their convenience make road and ferry transport a serious competitor to the cargo service by sea. This is what has happened to a striking extent in Skye, the only one of the islands where road and sea transport have already come into direct competition, and there sea service has suffered. If this pattern is repeated there is at least the possibility that cargo services from the Clyde, and from Aberdeen, may ultimately be replaced by road and ferry services. If this does take place, it may have a striking effect on the pattern of trade. In the past Glasgow and the Clyde area, partly because of the cheaper cargo services by sea, have been the main sources of supply for the islands. If in the future the preferred method of transport is by road and ferry then Inverness. Dingwall, Fort William and Oban may all be in a better position to compete with the Clyde for the island trade, which it is probably well within their capacity to supply. A ferry link between Ullapool and Stomoway as has been proposed might fit into this new pattern. We do not wish to forecast these matters but we think it proper to draw attention to the possibility of such developments if road haulage does become the principal means of transport to the lishness of the property of the

#### Air Services

- 107. Increasing use is being made of the Highland air services. This is to some centra at the exposes of rail, see and road services but not entirely so, for a good part of the air traffic is recognisably new. They have been described as 'social' services and cortainly they are, but they are also already of great value for business purposes, they have increasing value as a means of bringing tourists to and from the islands, and if any real industrial expansion is to take place the Highlands they will be a necessary link for the industrialist and his contacts and contents convived the area. Even though to some measure they competed with rail and steamer services they are an essential element in any efficient system of modern transport and it is necessary that they should be maintained.
- 108. It must be accepted that Highland air services are not commercially perfutible and are not likely to be profuble within the frozeesable future unless ome radical change takes place in the types of aircraft put into service. What the future of the newer types of conventional aircraft, or of the helicopter, hoverthat if these latter could be developed to as to be operated at a reasonable cost they could have a revolutionary reflect on Highland transport. Whether economies in operating aircraft and airfields could be made without impairing efficiency or safety, we are not called upon to jude.

#### Duplication of Services

Displacements of Services.

It is not been seen as to have regard to the need to avoid the unnecessary of the property of the property of the services of the property of the services of the

#### Changes in services in the future

110. This is not to say that the need for new services will continue as at present. We believe that the rate of economic progress that will be attained in the High-

<sup>\*</sup>The only apparent example is found on the fringe of the Highland area, on the Cyde where, over part of its routi, from Gourock to Redbesty, MacRayne's Arthinsia pervise does duplicate part of a service provided by the Caldonian Steam Packet Company. But even this is not so simple a case at might a first appear, because on the latter part of the MacRayner route, from Rotheasy to Tighnabruski, Tarbert (Loch Tymb and Artdinsiag, the Caldonian and Caldonian and Caldonian and Caldonian and Caldonian.

lands during the remaining decades of this century depends largely on the extent to which transport services and facilities are progressively developed; and that unless the Highlands are provided with adequate modern transport services they will fall further and further behind the rest of the country. This improvement will involve radical changes and we see no probability that it can be carried out without continued assistance. But there is at present no adequate means of ensuring the best value for money spent or that the necessary changes will proceed to a sensible plan taking account of the effects of development in one form of transport upon another. It would be very far from a true picture of the present situation if we suggested that the several operators and providers of transport facilities work in isolation from each other. Nevertheless, some formal means of bringing them together and concerting their plans does seem to be needed to ensure that the inevitable changes in the transport pattern take place in an orderly manner, in the best interests of users and of the Exchequer alike.

# Need for a supervisory body

- 111. In our previous report on Highland bus services we envisaged that it may now be desirable that there should be a body charged with the duty of exercising general oversight of public transport services in the Highlands and of the bearing of developments in one form of transport upon the role of others. We pointed out that as each form of transport develops it cannot but have repercussions on other transport and we added that in a peripheral area like the Highlands with a limited traffic potential, if wasteful expenditure of public money is to be avoided, it would be necessary to have effective arrangements to provide for the coordination of all forms of public transport. Similar considerations have, of course, been advanced on other occasions such as the earlier suggestion made by the Scottish Transport Council that a transport authority should be set up for the whole of Scotland. This suggestion did not commend itself to the Government and the transport policy that is being evolved for the country as a whole is on different lines. We do not think, however, that this is an argument against the setting up of the kind of body that we have in mind to deal with Highland transport. Highland circumstances are widely recognised to be different from those in the rest of the country and to require and justify treatment on their own. Our further consideration of their transport problems certainly confirms us in our earlier view that special measures are necessary to ensure the supervision of the development of Highland transport
- 112. The extent to which public money in one form or another is already involved in all forms of Highland transport, and is likely to continue to be involved, is in itself a sufficient instification for supervision to see that it is spent to the best advantage among competing transport interests and for the appointment of one body which can assess and adjust the claims and priorities of each. So far as we can see, heavy assistance, direct or indirect, is likely to be demanded by each of the competing forms of transport and without supervision the situation may be approaching when heavier assistance to 'A', making possible 'A's' modernisation and subsidised success, will require in turn heavier subsidies to 'A's' competitor 'B' to keep him in being. Such a process could easily get out of hand. One of the principal functions of the body we have in mind is to be found in advising the Government as to the manner and extent to which financial assistance, where necessary, should be applied.

## Functions proposed

- 113. As we see it, the main functions of the new body would be to advise the Government on:
- The general level of transport services, of all kinds, that are necessary to provide an adequate modern transport system in the Highlands.
  - (2) Public capital investment and priorities of investment in the various forms of transport including capital expenditure on rail, air, sea and road services and on their ancillaries such as roads, ferries, piers and aerodromes.
  - (3) Any operating assistance given to rail, air, sea and bus services.

114. These are in addition to the functions which we suggested in our fart report should be oscerical by relation to Hightand bus services. We wish to make it clear that the new body would not be charged with the executive functions of supplying, or operating, transport services; these are matters that should be left to the agencies who provide such services. It is assumed that where private the enterprise is prepared to provide a service, without assistance, it is hould continue to be allowed to do so, subject to obtaining any necessary licences as at present for functions of the Lecuniang Authority (for road hualage whichee), the The functions of the Lecuniang Authority (for road hualage whichee), the Research of the Company of the Company of the Company of the Company's activities is subject, in the case of road passenger transport, to the Company's activities as vanishers of the Company's activities as vanishers.

115. We realise that the forms of public investment or support, given at present to the various branches of public transport, may vary. In some cases they appear as grants or as other forms of direct expenditure on the Votes of the responsible Departments. The White Paper on the Financial and Economic Obligations of the Nationalised Industries (Cmnd. 1337) on the other hand indicates that each nationalised industry will be set a target of profitability, and if it is required to undertake uneconomic activities it will be entitled to ask for an adjustment of its target accordingly. This principle was further clarified during the debate on the Transport Bill in the context of uneconomic rail services (Hansard, 21st November, 1961, col. 1275). We are in favour of bringing all forms of subsidy into the open so that decisions about how money should best be spent may be taken openly, but so far as our present purposes are concerned the difference between these two methods of assistance is irrelevant. The functions of the new body we propose could be discharged either by advising on the amount of direct grant that should be given or the amount of direct expenditure that should be incurred or on the degree to which a nationalised industry's commercial target should be adjusted. We would also point out that assistance of the kind and on the terms we suggest is not to be regarded as a breach of the principle that nationalised industries should conduct their affairs on a commercial basis; what we suggest is rather a method whereby the Government can be helped to assess how much they should pay for services that they may judge to be necessary in the public interest but are found to be un-remunerative. Putting it another way, we would regard the industry or operator concerned as being asked or required to provide services, in effect on commercial terms up to the price at which the Government, with whom the final decision in these matters must rest, thinks it necessary and possible to pay for them.

## Transport charges

11.6. Our remit did not require us to consider the subject of transport charges, but charges policy is obviously referent to any question of assistance since without some control an operator in receipt of subsidy might either reduce his charges too low and that eliminates hir competition, or increase them too high and control to the control of th

117. These functions could only be discharged by a permanent body well acquainted with the Highland economy and with understanding of the realities of transport operation in the area and with an adequate staff to enable it to discharge its duties effectively. Neither the Scottish Transport Council, nor the Advisory Panel on the Highlands and Islands, as at present constituted, could undertake these responsibilities; and its scope would have to be much wider than that of the Scottish Transport Users Consultative Committee, The Scottish Transport Council is only concerned with suppliers of nationalised, or Government-assisted, transport, and is not concerned with the road programme. The Highlands Panel has a very general remit which embraces all aspects of the economic and social development of the area. The Scottish Transport Users Consultative Committee has closely defined duties under statute relating only to B.T.C. services. Some of the functions we have in mind are akin (as we have already indicated) to those at present discharged by the Traffic Commissioners and the Licensing Authority but the functions of the body we propose go far beyond their scope. We can however point to the close co-operation during the past 15 years between the Secretary of State and his Departments and the Advisory Panel on the Highlands and Islands as evidence that co-operation between an independent body and the Executive in such matters can work well and further the public interest. To what extent the new body should work within and to what extent it should work outwith public attention requires careful thought. Forward planning may have to be conducted in strict confidence, but since withdrawals of unremunerative transport services are, in the Highlands, matters vitally affecting the welfare of communities, there is much to be said for the new body holding enquiries in public into proposals by individual operators for withdrawals of services. We are aware that we are here recommending the creation of an additional organisation in the Highlands but we are doing this to meet a special need and it should be for consideration also whether this body could take over in the Highlands transport duties at present undertaken by other hodies

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#### Departmental responsibility

118. These transins the question—to whom should the new body we envisage to responsible? He Reponsibility for the British Transport Commission and the Lienning of road haulage services and of road passenger services rests with the Minister of Transport, responsibility for British European Airways and aero-drome operation rests with the Minister of Aviation. MacBrayne's transport of the Secretary of State for Sociland shipping services generally are the concern of the Secretary of State for Sociland who is likewise responsible for trunk roads and for assistance to classified roads, piers and ferries in the area. The Secretary of State for Sociland who is likewise responsible for trunk roads and for assistance to classified roads, piers and ferries in the area. The Secretary of State for Sociland solven minister, in so for as it affects the economy and weffer of Scolland.

119. Our conclusion is that on practical considerations alone, effective transport planning and the control of financial assistance would be made easier if the task of administering assistance to Highland transport services and facilities were concentrated on the Secretary of State for Scotland, and if the new body were required to report to him, rather than to a number of Ministers. We would assume that the Secretary of State would, in any event, have to maintain close links with the Ministers of Transport and Aviation for these purposes. But over and above these practical considerations we would emphasise that the Highland transport system must be viewed as one and that the economy of the area is built round it. Since the Secretary of State for Scotland has a general concern for the Highland economy it seems to us to follow that he should be the Minister with the final say about transport provision. With the Secretary of State primarily responsible for arterial transport and communications to and in the Highlands, and at the same time acting in consultation with the Ministers of Transport and Aviation and assisted by such a body as we recommend with a clear remit to supervise the general pattern of public transport in the area and to make recommendations on its own initiative, a rational and efficient solution to the Highland transport problem should be attainable.

## 120. Our main conclusions may be summarised:—

- (i) The position of the railways has been challenged by road transport and to a losser extent by air transport (paragraph 97) but important and essential services are still provided by rail (paragraphs 96 and 100) and no line should be closed until adequate substitute services by road are provided (paragraph 101).
  - (ii) Road transport has increased (paragraph 102) but future development depends on the improvement of the main road system (paragraph 103). Certain of the major islands should be included in the trunk road system (paragraph 104).
  - (iii) Sea services seem likely to remain the principal means of passenger and freight conveyance to the islands (paragraph 105), though the development of vehicle ferries is likely to bring about changes in the pattern of transport and trade (paragraph 106).
- (iv) Increasing use is being made of air services and they are an essential part
- of the transport system (paragraph 107).

  (v) Duplication of unremunerative services is rare, and it seems clear that there will continue to be distinctive places, severally, for rail, road, sea and

air services; and it is likely that many will continue to require assistance (paragraph 109).

(vi) The need for transport services may not continue as at present and progressive development may involve radical changes. But means are needed to ensure that changes take place in an orderly manner, in the best interest of users and of the Exchequer (paragraph 110).

(vii) We therefore recommend the setting up of a permanent body charged with supervision of the development of Highland transport (paragraph 111) and with the duty of advising the Government as to the manner and extent to which financial assistance should be applied (paragraph 112). This body should be responsible to the Secretary of State for Scotland (paragraph 119).

121. We wish to express our high sense of appreciation of the very ample assistance we have received at all times from the members of the Working Party. They have furnished us with much information and advice and have snared no efforts to provide us with material and answers to the many questions that we have found it necessary to put to them. Finally we wish to acknowledge the most valuable services rendered to us throughout the course of the Enquiry and the preparation of this report by the Joint Secretaries, Mr. M. M. Stuart of the Scottish Transport Council and Mr. J. S. Gibson of the Department of Agriculture and Fisheries for Scotland and, until October, 1961, Secretary of the Highlands and Islands Advisory Panel.

> John Cameron Iain Hilleary

P H W Bruce

C. J. D. Shaw Robert Taylor

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#### APPENDIY I

#### MEMBERSHIP OF THE HIGHLAND TRANSPORT ENOUIRY

#### Scottish Transport Council

The Hon, Lord Kilbrandon Robert Taylor, Esq.

The Rt. Hon. Lord Hughes, C.B.E., LL.D. Alternate Members

T. G. Robinson, Esq., O.B.E., T.D.

Advisory Panel on the Highlands and Islands The Hon, Lord Cameron, D.S.C., LL.D. Iain Hilleary, Esq.

# R. H. W. Bruce, Esq.

Secretaries

M. M. Stuart, Esq., C.I.E., O.B.E., (Secretary, Scottish Transport Council) J. S. Gibson, Esq., (Secretary, Advisory Panel on the Highlands and Islands)

#### Working Party Membership

- J. Amos, Esq., C.B.E., Chairman, Scottish Bus Group J. Ness, Esq., Gen. Manager, Scottish Region, British Railways
- S. E. Raymond, Esq., Asst. Gen. Manager, Scottish Region, British Railways (later, Traffic Advisor, British Transport Commission)
- C. B. Leith, Esq., General Manager, David MacBrayne Ltd.
- R. McKean, Esq., Scottish Manager, British European Airways
- J. P. Young, Esq., O.B.E., Scottish Division, British Road Services
- A. J. Aglen, Esq., C.B. Department of Agriculture and Fisheries for Scotland
- A. C. Cowan, Esq., Scottish Development Department
- G. M. McIntosh, Esq., O.B.E., Scottish Controller, Ministry of Aviation J. L. Warrender, Esq., Senior Scottish Officer, Ministry of Power.

#### APPENDIX II

#### FREIGHT CARRYINGS OF THE HIGHLAND RAILWAY LINES

## A-Perth-Inverness Line

 During the year 1959 the undernoted traffic, received at or forwarded from, stations on both routes between Perth and Inverness, was carried by the railway:—

Freight 202,976 tons made up of 90,000 coal 10,920 timber

6,300 potatoes 5,390 whisky

1,700 grain 10,000 malt and barley

5,000 bitumen and tar 73,666 general merchandise

202,976

Only the coal and general merchandise are transported with any degree of regularity, approximately 525 tons per day; the remaining traffics are largely seasonal.

Parcels 613,000 parcels were carried over the railway, an average of

1,965 per day.

Mails The carriage of Post Office letter and parcel mail bags is a regular

feature of the railway service and about 872,000 bags were conveyed, approximately 2,795 per day.

Livestock During the seasonal movement of livestock 80,386 animals were transported.

2. In addition to the above traffic the undernoted tonnage was carried over the section to and from locations North and West of Inverness:—

Tons

Freight 185,000 tons made up of 68,430 coal 8,977 timber

1,274 grain 8,868 potatoes 8,511 bitumen

8,511 bitumen 4,251 whisky 1,185 scrap

2,773 cement 80,731 general merchandise

185,000

Parceis 714,000
Mails 742,000 bags
Livestock 160,000 head
Fish 2.623 tons

--

B-Inverness-Wick/Thurso

During the 12 months ended December 1959 the railway transported the undernoted traffics:—

Potatoes, whisky and grain are seasonal traffics and cannot therefore be assessed for transport purposes on a daily basis. The other traffics, however, are fairly regular and the railway requires to provide transport for approximately 500 tons per day.

Parcels 458,000 parcels, an average of 1,500 per day were transported over the railway during the period.

the railway during the period.

Mails The conveyance of Post Office mails is a regular feature of rail
transport and during the year 1959 about 514,000 bags were carried, an

average of approximately 1,600 per day.

Livestock 163,000 head of livestock were carried over the railway during

the seasonal movements.

During the heavy Spring and Autumn livestock periods special trains are run southwards from Thurso, Forsinard, Lairg and Dingwall. During four days sales at the beginning of August Thurso dispatched 177 tracts of lambs while in the middle of the same month 112 trucks of lambs were dispatched in one day from Lairg. As many as 81 trucks of cattle were sent forward

from Dingwall during one day in the month of March.

Fish Fish landed at Wick, Scrabster and Helmsdale and forwarded by rail during the period under review totalled 2.333 tons viz.

Wick Tons
1,413
Thurso (for Scrabster) 900
Helmsdale 10
2,323

Included in the above summary of traffics are the figures relative to railborne traffics passing through Thurso Station en route to and from the Orkney Islands via Scrabster Harbour, viz. 375 tons freight, 7,728 parcels and 53,040 bags of mail.

#### C-Inverness-Kyle of Lochalsh Line

 During the year 1959 the undernoted traffic was carried over the railway:— Freight 17,000 tons made up of 3,643 tons of coal from Scottish pits 3,126 tons of timber and pitprops to Scottish destinations

10,231 tons of general merchandise

17,000

17,000

The movement of freight train traffic does not fluctuate to any appreciable extent and it would be true to say that the railway transports on the average between 50 and 60 tons of this type of traffic per day.

Parcels 335,000 parcels were carried over the railway during the period and as these are fairly regular in their flow an average of 1,073 parcels per day truly reflects the position.

Mails Letter and parcels mails are regularly carried over the railway and

Mails Letter and parcels mails are regularly carried over the rankay and in 1959, 311,000 bags were transported, an average of approximately 1,000 bags per day.

Milk The conveyance of 378,000 gallons of milk, 83% for Stornoway, was undertaken by the railway in the period under review but as this is a fluctuating traffic depending on the season of the year a daily average figure would be misleading.

Livestock 70,000 head of livestock were transported during the seasonal movements.

Fish Approximately 300 tons of fish were landed at Kyle of Lochalsh all of which were despatched by rail.

 Included in the above figures are those relative to railborne traffic passing

through the port of Kyle of Lochalsh to and from Stornoway, viz. 4,424 tons of freight and parcels, 81,380 bags of mail, 313,490 gallons milk and 23,510 head of livestock.

#### D-Dunblane-Oban/Ballachulish Line

 During the year 1959 the undernoted traffics exclusive of shipment items were carried by the railway over the Dunblane to Oban line and the Killin and Ballachulish Branches:—

(a) Freight 78,000 tons made up of 28,859 tons of coal and coke

9,346 tons of oil

1,359 tons of barley and malt 1,000 tons of chloridex

1,031 tons of timber 1.528 tons of carbon blocks

894 tons of cement 848 tons of fertilisers

16,299 tons of general merchandise

39

Coal, coke, alumina, oil and general merchandise are fairly regular in movement and on the average the railway transports 230 tons of such commodities each day. A supply of bulk alumina vans is specially provided by the railway for the conveyance of alumina from Burntisland to Ballachulish for the British Aluminium Co 's works at Kinlochleven (b) Parcels 124,000 parcels an average of 397 parcels per day.

(c) Malls 178,000 bags of Post Office letter and parcels mails, an average of 570 bags per day

(d) Livestock During the seasonal movement of livestock in 1959, 56,000 animals were transported. Of that number almost 43,000 head were forwarded by rail from Oban, most of the animals having originated in the

Islands and passed through the Livestock market at Oban. (e) Fish 1 700 tons of fish were sent forward by rail from Ohan.

In addition to the foregoing the undernoted traffics were carried by rail via Oban en route to and/or from the Islands by steamer:-11,314 tons freight, 36,000 parcels, 27,000 bags of mail.

E-Craigendoran-Fort William-Mallaig Line 1. The area served is snarsely populated and apart from Fort William and

Mallaig the communities are small: nevertheless the railway caters for a number of industries and the undernoted traffic was carried during the year 1959:-Freight 193,000 tons made up of — 31,000 tons of coal from Scottish pits

30,000 tons of alumina. Burntisland to Fort William

8.000 tons of netroleum coke. Grangemouth to Fort William

16,000 tons of aluminium Fort William to various destinations

49,000 tons of scrap metal. Faslane to various destinations

3.000 tons of nitwood to Scottish nits 10,000 tons of oil and spirit, Grangemouth and Bowling to Fort

William 46,000 tons of general merchandise

193,000 tons

On the average 147 tons of general merchandise is transported daily. The commodities transported in bulk do not move on a daily basis but spasmodically, in quantity. The only exception to this is the alumina which is carried to Fort William at the rate of approximately 100 tons per day Parcels About 104,000 parcels are carried to and from stations on the West Highland line each year and since such traffic is fairly regular an average

figure of 330 parcels per day would be a fair estimate of the position. Fish Some 7,000 tons of fish were transported during the year 1959 but a daily average figure would not reflect the true position. It will be appreciated that fish landings at Mallaig depend on the season and are heavier in the

carried by rail 5,135 tons were conveyed in the period between November and January.

Mails Post Office mails are a regular daily traffic carried over the railway and during the year 1959, 93,668 bags were conveyed, an average of 300 bags per day.

Livestock 26,000 head of livestock were transported in 1959 during the seasonal movements.

Included in these figures are those in respect of Stornoway traffic passing via Mallaig (including fish traffic from Stornoway) viz.

General Merchandise Rail traffic for Stornoway shipped at Mallaig
779 tons

7 cattle 112 sheep Traffic from Stornoway discharged at Mallaig for rail conveyance

378 tons
Parcels and Miscellaneous Consignments by Passenger Train

Forwarded to Stornoway 21 tons (or 3.960 pcls.)

Received from Stornoway 132 tons (or 3.960 pcls.)

Post Office Mails Traffic The average dispatch of mails by boat from Mallaig to Stornoway is approximately 20 tons or about 600 bags per month. No mails are received from Stornoway for dispatch by rail from Mallaig.

# APPENDIX III

## THE HIGHLAND TRUNK ROADS

		Exis	ting Carr	iageway			
Route	Section	Length (Miles)	Width (ft.)	Align- ment	Approx. Traffic Capacity P.C.Us.	Actual 1961 Traffic P.C.Us.	Degree of overloading or underloading
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
A.9	Perth-South of Dunkeld	10	2 Lane Narrow	Fair	4,600	4,550	At capacity
	S. of Dunkeld- Blair Atholl	23	2 Lane Narrow	Fair	4,600	4,110	10% under capacity
	Blair Atholl- Inverness	80	18'	Good	4,200	2,640	35% under capacity
	Inverness- Dingwall	22	2 Lane Narrow	Fair	4,600	5,590	20 % overloaded
	Dingwall- Evanton	8	2 Lane Narrow	Fair	4,200	4,510	10% overloaded
	Evanton- Brora	44	18'	Fair	4,000	1,640	60% under capacity
A.9/ A.882	Brora-Wick- Thurso	70	16'-18'	Fair	4,000	1,080	70% under capacity
A.82	Balloch-South of Luss	5	2 Lane Narrow	Fair	4,600	5,880	30% overloaded
	South of Luss- Tarbet	12	16'-18'	Poor	4,000	4,470	10% overloaded
	Tarbet- Criantarich	17	15'-18'	Poor	4,000	2,260	40 % under capacity
	Crianlarich- Tyndrum	5	2 Lane Narrow	Poor	4,000	3,540	10% under capacity
	Tyndrum- Ballachulish	37	18'	Good	4,200	2,060	50 % under capacity
	N. Ballachulish- Ft. William	13	18′	Good	4,200	3,250	25% under capacity
	Ft. William- Spean Bridge	10	18'	Good	4,200	3,320	25 % under capacity
	Spean Bridge- Invergarry	15	18"	Good	4,200	1,960	55% under capacity

		Exi	ting Carr	iagoway			
Route	Section	Length (Miles)	Width (ft.)	Align- ment	Approx. Traffic Capacity P.C.Us.	1961 Traffic	Degree of overloading or underloading
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
A.84/ 85	Stirling-Doune	8	2 Lane Narrow	Good	5,000	4,690	near capacity
	Doune-Callander	8	2 Lane Narrow	Fair	4,600	3,490	25 % under capacity
	Callander-Lix Toll	18	2 Lane	Poor	4,000	2,870	30 % under capacity
	Lix Toll- Crianlarich	11	2 Lane	Poor	4,000	2,340	40 % under capacity
	Tyndrum-Dalmally	13	18'	Good	4,200	1,880	55 % under capacity
	Dalmally-Connel Bridge	19	18'	Good	4,200	2,710	35 % under capacity
	Connel Bridge- Oban	5	18′	Good	4,200	4,820	15% overloaded
A.832/ 834	Dingwall-Garve	13	2 Lane Narrow	Poor	4,000	1,770	55 % under capacity
A.835	Garve-Ullapool	32	single C/way	Poor	600	920	Single: 50% overloaded
			1 18'	Good	4,200	920	18': 75% under capacity
A.87	Invergarry- Kyle of Lochalsh	51	Mostly Single C/way	Poor	600	1,130	Single: nearly 100% over- loaded, 18':70% under capacity.
A.830	Ft. William- Corpach	3	18′	Fair	4,200	3,720	10% under capacity
	Corpach-Mallaig	43	Mostly Single C/way	Poor	600	700	Single: some- what overloaded, 18': 80% under capacity.
A.828	Connel-Ballachulish	31	16'-18'	Poor	3,800	1,190	70 % under capacity

#### Existing Carriageway

Section

Garvo-Achnasheen

Achnasheen-

Auchiertyre

(non-trunk)

A.832/

890 (non-trunk)

Length (Miles)		Align- ment	Approx. Traffic Capacity P.C.Us.	1961 Traffic	Degree of overloading or underloading
-------------------	--	----------------	---	-----------------	--

600 1,000\* Over 50% over-

750° 25 % overloaded

(1)	(2)	(3)	(4)	(5)	(0)	(1)	(0)
A.83	Tarbet-Junction with A.815	13	18'	Poor .	4,000	34,000	15% under capacity
	Junction with A,815-Inveraray	11	18'	Good	4,200	2,120	50 % under capacity
	Inveraray- Lochgilphead	25	18'	Good	4,200	1,680	60% under capacity
A.816	Lochgilphead-Oban	37	16'-18'	Poor	3,800	1,340	65 % under capacity

APPENDIX III (Contd.)

C/way

16 Single Poor C/way

31 Single Poor 600

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#### APPENDIX IV ROAD GOODS TRANSPORT IN THE HIGHLANDS

AND ISLANDS

Number of operators and number of A and B licence vehicles (incl. B.T.C. and B.R. vehicles) from 'Transport in the Highlands and Islands' by

Area 1958		On A	On B	and B	1	v. flo	et	A	vehi weigh	cle	Vehicles
1930		lic.	lic.	lic.	۸.	B.	all	A.	B.	all	pop.
Easter Inverness and	Ops.	40	107	147							
Easter Ross	Voh.	177	202	379	4.43	1.9	2.6	3.4	2.8	3.1	4.6
	Tons	6041	5741	1,179							
Wester Ross	Ops.	5	48	53							
Lochaber	Veh.	8	87	95	1.6	1.8	1.8	2.8	2.7	2.7	8.6
	Tons	221	236‡	2591							,
Sutherland	Ops.	6	44	50							
	Veh.	17	82	99	2.8	1.9	2.0	3.7	2,7	3.1	7.6
	Tons	62à	2442	307							
Caithness	Ops.	14	52	66	_		Г				
	Veh.	29	91	120	2.0	1.7	1.8	3.0	2.6	2.7	4.8
	Tons	861	240	3261				1		1	
Outer	Ops.	4	211	215						Г	
Istands	Veh.	20	299	319	5.0	1.4	1.5	2.8	2.3	2.3	9.4
	Tons	551	690	746							
Inner	Ops.	11	76	87						Г	
Islands	Veh.	15	122	137	1.4	1.6	1.6	2.5	2.5	2.5	8.6
	Tons	37‡	305	343						L	
Southern	Ops.	60	185	245						1	
(Perthshire, Bute, Argyll)	Veh.	177	340	517	3.0	1.8	2.1	3.3	2.6	2.9	3.7

863 3.2 45

1.9 3.3 2.6 2.8 5.2

1,223 1,666

1.149 3.192 4.641

Tons 5803 8991 1,4801

Ops. 140 723

Veh 443 Tons

Highlands

and Islands

#### APPENDIX V

#### LONG DISTANCE BUS SERVICES IN THE HIGHLANDS

# (A) Scottish Bus Group

Service and Operating Company	Period of Operation		Daily reque	ncy	Capacity	Carryings Average Daily During 1960	Journey Time
(1) Scottish Omnibuses L (a) Edinburgh-Inverness (Day Service)	TD. Mid June to Mid Sept.	1	1	1	Unlimited	71	8 hrs. 15 mins.
(b) Edinburgh-Inverness (Night Service)	Do. do.	İ	Jour	ree neys week	Unlimited	80	7 hrs. 10 mins.
(2) HIGHLAND OMNIBUSES (a) Inverness-Thurso (Express Service)	Ltd. Mid June to Mid Sept.		Jour	nte notys week	Unlimited	95	6 hrs. 20 mins.
(b) Inverness-Thurso (Stage Connecting Service)	Do. do. Mid. Sept. to Mid June	1	1	=	Unlimited	-	9 hrs. 30 mins. to 10 hrs. 30 mins.
(c) Inverness-Heimsdale	January to December	4	5	-	Unlimited	-	5 hours. 34 mins.
(d) Inverness-Dornoch	Do. do.	6	6	-	Unlimited	- 1	3 hrs. 38 mins.
(e) Inverness- Fort William	Do. do.	2	2	2	Unlimited	150	2 hrs. 45 mins.
(3) W. ALEXANDER & SON (a) Glasgow-Inverness (Day Service)	s Ltd. Mid June to Mid Sept.	1	1	1	Unlimited	334	8 hrs. 2 mins.
(b) Giasgow-Inverness (Night Service)	Do. do.		Jou	ree meys week	Unlimited	173	6 hrs. 55 mins.
(c) Glasgow-Oban	January to December	2	2	2	Unlimited	359	4 hrs. 36 mins.

Carryings are derived from Route Figures and include Intermediate Traffic

# (B) David MacBrayne Ltd.

				Aw	yings rage		
Service	Period of Operation	Frequency	Capacity	Summer June/ Sept.	Winter	Summer Peak	Journe Times
Giasgow-Fort William	Oct. to March Saturdays and Sun- days only	1 Journey in one direction each day	Unlimited	-	26		5 hour
	April to Sept. Daily	M/F 1 return journey dally Saturday 1 journey to Fort William 2 journeys to Glasgow Sunday 2 journeys to Fort William 1 journey to Glasgow	29	112	_	386	
Fort William- Inverness	January to December Monday to Saturday	2 return journeys daily	н	255	166	299	2 hrs. 45 min
Fort William- Tyndrum	January to December Daily	1 return journey daily		97	74	111	2 hrs. 45 min
Glasgow- Tarbert- Campbeltown	January to December Daily	1 return journey to Campbeltown daily 1 return journey to Tarbert daily	n	578	390	1,710	5 hrs. 45 mins 4 hrs. 20 mins
Kyle- Inverness	October to May	Saturdays only 1 return journey		-	44		3 hrs. 35 min
	June to September	Tuesdays and Saturdays 1 return journey each day		58	-	73	

#### APPENDIX VI

#### A. SEA SERVICE CARRYINGS OF DAVID MACRRAYNE LTD.

#### COMPARISON OF STEAMER CARRYINGS FOR THE YEARS 1952 AND 1960

				<ol> <li>P</li> </ol>	asseng	ers					
	Yeart	/ Total	Sur	ımer	w	inter		vernge		nter	
Service								nmer			Maximum Daily
	1952	1960	1952	1960	1952	1960	1952	1960	1952	1960	Carryings
Ardrishzig Mnii Service	209,816	114,772	120,096	71,877	89,720	42,895	1,149	711	429	205	1,660
Islay Mail Service	31,000	33,642	18,672	22,753	12,328	10,889	177	225	60	52	1,229
Mull Mail Service	19,216	49,326	21,296	26,007	17,940	23,319	203	254	86	111	771
Inner Islands Mail Service	16361	29,677	10,571	19,452	5,790	10,225	176	388	56	98	1,245
Outer Islands Mali Service	18,526	14,703	12,200	10,286	6,317	4,417	230	204	61	42	345
Portree Mail Service	51,637	26,907	33,674	20,913	17,963	5,994	321	209	86	29	545
Stornowny Mail Service	43,700	74,071	24,283	44,498	19,417	29,573	231	445	93	141	1,292
Staffa and Iona Service	36,224	60,159	36,224	60,159	-	-	416	654	_	_	2,219
Oban Excursion Service	41,701	51,716	41,701	51,716	-	-	453	517	_	-	1,340
Lismore Service	8,194	7,803	4,724	5,053	3,470	2,750	36	38	18	15	.59
Mingary Service	4,639	6,302	4,157	5,853	482	449	33	45	2	2	82
Loch Shiel Service*	4,152	7,449	3,697	5,160	455	289	28	54	2	2	96
Loch Totonig Service?	2,905	3,009	2,197	2,166	708	843	16	16	4	4	20
Stornoway Cargo Service	13	34	13	26	-	8	_	_	_	_	-
Islay Cargo Service	_	_	-	-	_	-	_	_	_	_	-
Outer Islands Cargo Service	328	418	305	219	23	199	_	_	_	_	_
Special Steamers, Charters etc.	650	371	650	365	-	6	-	-	-	-	-
	509,082	480,359	334,469	348,503	174,613	131,856	3,469	3,760	897	701	10,973

\* Lock Shiel Service-Year 1954 taken as service was not in operation in 1952. † Lock Toscaig Service-Year 1937 taken as service was not in operation in 1952.

	Ge	ods			Motor	Cars						Livesto	sk			
Service	(Incl	oding in)	Ye	arly otal	Sum	TRE	Wi	nter	C	ttle	Sh	тер	Hou	rses	Pi	61
	1952	1960	1952	1960	1952	1960	1952	1960	1952	1960	1952	1960	1952	1960	1952	1960
Ardrishnig Mail Service	1,204	799	_	_			_	_	_	270				_		
Islay Mail Service	3,882	4,576	944	1,929	617	1,400	327	527	533	593	2,737	5,292	18	7	2.59	159
Mull Mail Service	4,142	3,306	716	1,212	433	997	233	215	737	1,000	6,084	4,016	43	,	77	,
Inner Islands Mail Service	3,647	5,446	408	1,349	259	985	149	364	394			2,103	45	37		
Outer Islands Mult Service	3,252	3,186	296	591	198	378	98	213	379	335	1,98.1	3,244	27	26	13	_
Portree Mail Service	4,407	361	229	48	200	37	29	11	531	73	4,947	1,317	29	_	74	_
Stornowny Mail Service	9,601	11,976	786	3,383	525	2,546	255	837	907	2,016	11,382	20,337	46	18	21	161
Staffs & Iona Service	51	70	_	_	_	-	_	_	_	_	311	_	_	_	_	_
Oban Excursion Service	17	326	_	285	_	285	_	_	48	22	3,450	44	_	1	_	_
Lismore Service	89	65	_	-	_	_	_	_	_	_	17	14	_	_	_	_
Mingary Service	114	93	_	_	_	_	_	_	_		30	133	_	_	_	_
Loch Shiel Service*	191	112	_	_	_	_	_	_	2	10	118	221	_	_	_	_
Loch Tostelg Service†	72	72	_	_	_		_	_	27	27	17		_	_	_	_
Stornoway Cargo Service	19,316	22,281	35	30	16	10	19	20	282	131	_	_	1	_	_	_
Islay Cargo Service	12,503	16,124	25	14	12		13	10	1,897	1,528	5,730	5,870	48	32	269	30
Outer Islands Cargo Service	20,258	22,305	106	177	62	72	44	105	2,948	4,485	22,749	26,418	45	9	160	8
Special Steamers, Charters etc.	132	562	2		2	2	_	6	4,648	3,661	15,129	22,559	30	14	5	_
	\$2,918	01.669	1 441	0.004	2 274	4410	1 167	2 200	19 119	14 224	77 569	01 504	312	161	1.208	

49

Loch Shiel Service—Year 1954 taken as service was not in operation in 1952.
 Loch Toscaig Service—Year 1957 taken as service was not in operation in 1952.

# 

# KYLE/KYLEAKIN FERRY SERVICE—CARRYINGS

Year	No. of Passengers	No. of Private Cars	No. of Commercial Vehicles	Total Vehicle
1951	107,693			19,415
1952	113,542			23,242
1953	112,888			25,158
1954	125,469			29,951
1955	135,730			39,100
1956	151,547			48,846
1957	155,807	45,002	5,629	50,631
1958	177,967	57,486	6,458	63,944
1959	224,021	64,604	9,002	73,606
1960	214,352	68,014	10,614	78,628
1961	224,208	74,355	10,464	84,819

#### APPENDIX VII

# CARRYINGS OF THE HIGHLAND AND ISLAND AIR SERVICES OF BRITISH EUROPEAN AIRWAYS

# A-Passenger Traffic

# (Financial Year/April-March)

1952/1953 1959/1960

1960/1961

		1932/1933	1939/1900	1700/170
GLASGOW				
Campbeltown	Out	2,643	2,256	2,491
	In	2,680	2,370	2,685
Islay	Out	2,249	4,085	4,368
	In	2,481	4,214	4,563
Tiree	Out	816	1,387	1,490
	In	876	1,405	1,530
Barra	Out	362	732	953
	In	317	710	943
Benbecula	Out	1,610	2,979	3,265
	In	1,581	3,092	3,625
Stornoway	Out	2,318	3,828	4,295
	In	2,160	3,831	4,647
Inverness	Out	219	2,197	2,360
	In	284	2,059	2,066
Wick	Out	421	1,940	2,028
	In	384	2,023	2,178
Orkney	Out	843	1,229	1,407
	In	872	1,194	1,265
Shetland	Out	837	926	1,040
	In	749	819	964
BERDEEN				
Wick	Out	1,172	1,850	2,027
	In	1,119	1,742	1,911
Orkney	Out	3,752	4,412	4,753
	In	3,751	4,773	5,179
Shetland	Out	1,656 1,558	3,276 3,620	3,649 3,925

# A-Passenger Traffic (Contd.)

		1952/1953	1959/1960	1960/196
EDINBURGH				
Wick	Out	1	1,032	I,134
	In	62	1,003	I,127
Orkney	Out	530	1,224	1,285
	In	588	1,129	1,239
Shetland	Out	6	501	444
	In	216	595	593
INVERNESS				
Benbecula	Out	413	970	1,151
	In	402	1,022	955
Stornoway	Out	2,136	4,245	4,958
	In	1,780	3,972	4,698
Wick	Out	315	772	815
	In	395	503	516
Orkney	Out	1,005	980	985
	In	1,051	977	984
Shetland	Out	261	425	483
	In	254	417	490

# B—Freight, Mail and Newspaper Traffic (Financial Year/April—March)

#### (Timmessi Teat/rspin—ivan

Weight expressed in Kilograms

		1952/1953	1959/1960	1960/1961
GLASGOW				
Campbeltown	Out	20,554	8,919	10,964
	In	18,558	3,762	3,167
Islay	Out	51,433	87,779	97,571
	In	7,836	11,399	11,173
Tirec	Out	4,566	5,621	8,273
	In	4,480	3,166	3,196
Barra	Out	6,157	12,959	16,110
	In	1,523	1,794	1,726
Benbecula	Out	31,187	87,452	89,085
	In	9,530	11,690	12,055
Stornoway	Out	72,927 13,142	189,698 20,049	233,329 23,652
Inverness	Out	1,109	28,777	39,671
	In	165	22,810	26,780
Wick	Out	1,490 174	57,656 13,006	51,513 11,023
Orkney	Out	5,951	37,138	45,514
	In	1,857	16,943	11,067
Shetland	Out	2,966	45,157	38,588
	In	921	21,675	17,356
ABERDEEN				
Wick	Out	6,014	2,656	3,626
	In	11,951	989	1,899
Orkney	Out	95,135	134,705	143,998
	In	42,361	5,557	5,914
Shetland	Out	89,366	116,162	126,139
	In	28,763	5,711	6,831

# B-Freight, Mail and Newspaper Traffic (Contd.)

		1952/1953	1959/1960	1960/1961
EDINBURGH				
Wick	Out In	71	382 189	534 193
Orkney	Out In	577 195	1,166 405	908 353
Shetland	Out In	76	607 396	498 287
INVERNESS				
Benbecula	Out In	1,912 260	45,530 703	15,178 988
Stornoway	Out In	4,774 407	13,601 3,156	41,263 3,620
Wick	Out In	22,365 892	35,670 6,309	43,808 9,330
Orkney	Out In	37,558 2,661	36,029 11,172	38,740 16,664
Shetland	Out	1,680 256	6,664 7,960	10,840 12,024

#### APPENDIX VIII

## EXTRACT FROM THE MINISTRY OF TRANSPORT'S ANNUAL PUBLISHED CENSUS OF ROAD MOTOR VEHICLES

# Vehicles with licences current at any time during the quarter ended 30th September

		1955		1960				
County Council	Goods '	Vehicles		Goods 1	_			
	Farmer's	General	Cars etc.	Farmer's	General	Cars etc.		
Argyll	168	1,112	4,115	173	1,252	6,157		
Caithness	76	511	1,874	43	486	3,638		
Inverness	131	1,982	5,269	121	2,234	8,387		
Orkney	44	640	1,971	28	827	2,841		
Ross and Cromarty	113	1,585	3,473	124	1,873	5,286		
Sutherland	34	432	1,243	45	509	1,696		
Zetland	60	375	857	31	326	1,540		
TOTALS	626	6,637	18,802	565	7,507	29,545		



#### MINISTRY OF TRANSPORT

# Transport Services in the Highlands and Islands

Report of the Highland Transport Enquiry to the Minister of Transport, the Secretary of State for Scotland and the Minister of Aviation.



LONDON
HER MAJESTY'S STATIONERY OFFICE
1963

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